





H.264 Networking Surveillance System



USER MANUAL

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICABLE PARTS INSIDE.</p> <p>REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

We highly encourage our customers to bench test their system prior to installation. Bench testing will confirm all components are operating properly and will help familiarize you with the system prior to installation.

Lay your system components out on a large surface such as a test bench or kitchen table and inventory items.

Connect cameras to the DVR video inputs, a monitor or TV to the DVR video output, and then connect power to the cameras.

Turn the DVR on; the cameras will be visible on the DVR live view screen.

Turn DVR power off to install the hard drive into the DVR, turn on the DVR and familiarize yourself with the DVR menus and functions.

Permanently install the cameras, cables, power supplies, and DVR. Follow the guide below for more details about the DVR.

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1 INTRODUCTION

1.1 PRODUCT INTRODUCTION

This compact DVR has all the functionality you desire. H.264 video compression ensures maximum recording time, while preserving the quality of the recorded video. Ethernet connection provides access from any computer on your home network and even remotely over the Internet or your Smartphone. An intuitive onscreen GUI eases system setup and exporting recorded video. Video motion detection saves hard drive space and alerts you to movement in an observed area. Other features include local recording, playback, support triple mode remote network surveillance, data backup, parameter setting, motion detection, I/O alarm setting, PTZ, USB mouse, USB2.0 backup, IE browser and back up etc.

1.2 PRODUCT FEATURE

- ✧ H.264 compression
- ✧ Two USB interface, USB 2.0 for data backup, USB 2.0 for mouse operation
- ✧ Support one 3.5" SATA HDD
- ✧ Special file system for security
- ✧ 16 bit color translucent user-friendly GUI, with notes for selected menu items
- ✧ Optimized four channel simultaneous playback
- ✧ Two level user management
- ✧ Support live view, parameter setting and copy/playback via network

1.2.1 SPECIFICATION

Description	4CH
Compression	H.264
Video in	1.0Vp-p/75Ω , BNC×4
Video out	1.0Vp-p/75Ω , BNC×1 ; VGA×1
Resolution	Live : D1 Record : 1CH D1, 3CH CIF
Frame Rate	Non-real time; Max NTSC :120 Fps (CIF), PAL 100 Fps (CIF)
Audio input	RCA×1
Audio output	RCA×1
Audio codec	ADPCM
Alarm input/output	N/A
Video mode	Manual recording, Scheduled recording, Video motion detection
Network interface	RJ45,100M/1000M
PTZ	Supported (Pelco-D, Pelco-P)

PTZ interface	RS485 × 1; + / -
Data storage	Support 1 SATA HDD; 300GB-2TB
Mouse	USB Mouse
Remote control	IR remote included
Voltage input	12V/3A
Appearance	Half-chassis

1.3 ENVIRONMENTAL

Safety precautions should be employed while installing and using this DVR. To prolong life of this device please pay attention to the following:

- When installing this device, please comply with all the electrical product safety criteria
- Do not drop liquid on DVR or insert any objects
- Use soft dry cloth to clean DVR; do not use chemical cleaners
- Please disconnect this device from the power if not used for long duration

1.4 PACKAGE CONTENTS

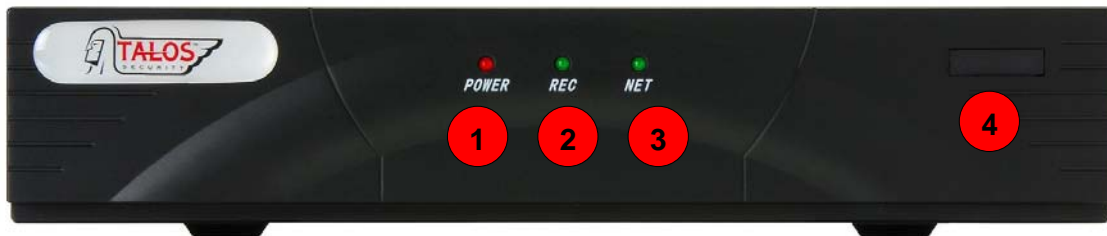


QTY	DESCRIPTION
1	4-Channel DVR
4	600 TVL Bullet Cameras
4	Camera Power Supplies
4	60 ft. Camera/Power Cables
4	Camera mounts with hardware
1	Mouse
1	IR Remote Control
1	DVR Power Supply

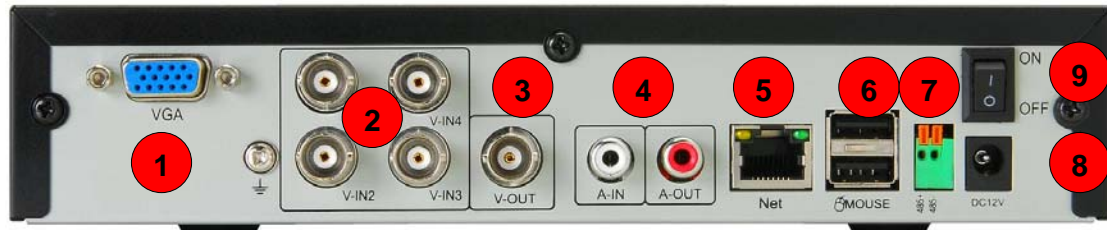
2 INSTALLATION

2.1 PRODUCT OVERVIEW

2.1.1 Front Panel Indicators



NO.	NAME	Function
1	Power Indicator	Shows the DVR is turned ON
2	Record Indicator	Shows the DVR is in RECORD mode
3	Network Indicator	Show the DVR is connected to and communicating with the local area network
4	IR	Remote control receiver



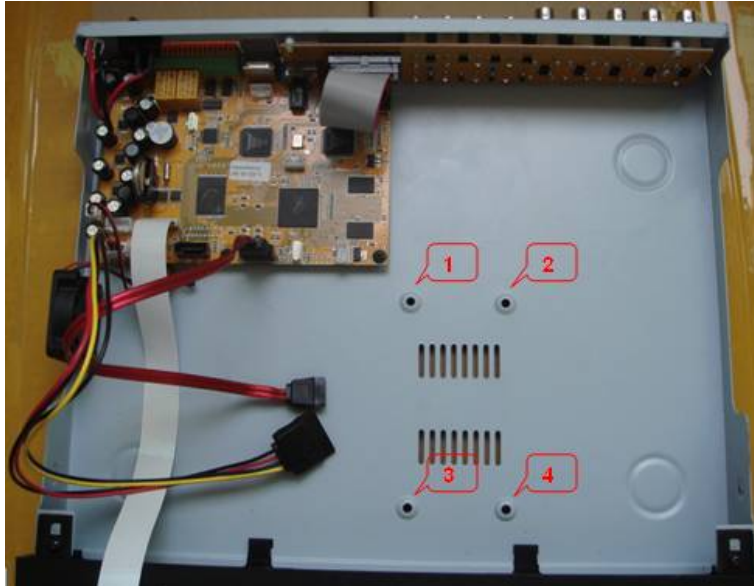
2.1.2 Connectors on Rear Panel

NO.	Name	Function
1	VGA	Connect a VGA monitor for high resolution viewing
2	Video input	4 BNC; composite video camera inputs
3	Video output	1 BNC; composite video output
4	Audio input / out	2 x RCA; line level audio input / output
5	Network	Connect the DVR to a local area network
6	USB	2 x USB ports; mouse port / flash-drive for file backup
7	RS485	RS485+ / RS485- for PTZ camera control
8	Power jack	Connect 12Vdc power supply
9	Power switch	Master power switch

2.2 HDD INSTALLATION

Follow the steps below to install the hard drive into the DVR.

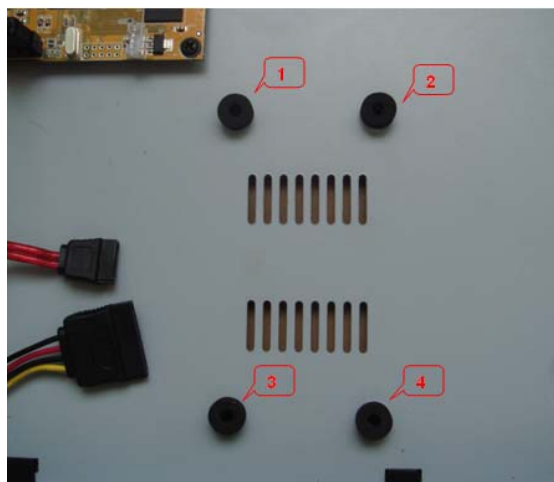
- 1) Remove the cover from the DVR and locate the four screw holes and ventilation slots.



- 2) Remove the four screws and foam isolation pads from the accessory box; see photo below.



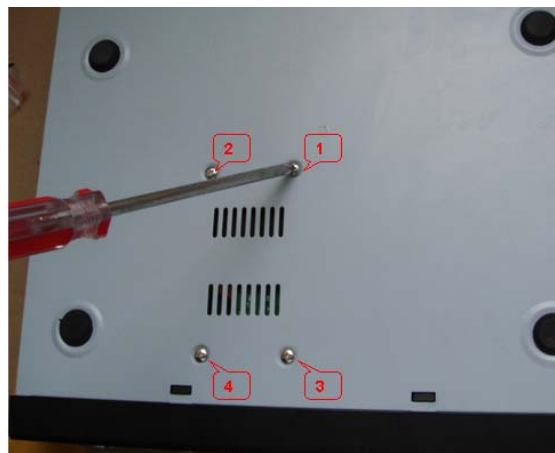
- 3) Remove the paper backing and place the isolation pads over the screw holes.



4) Place the hard drive over the screw holes and isolation pads as shown below.



5) Insert the screws through the bottom of the chassis, through the isolation pads and into the mounting screw holes of the hard drive.



NOTE: After installation the new hard drive must be formatted.

3 DEVICE OPERATION

3.1 MOUSE OPERATION

The mouse is the primary input device for navigating system menus.

NOTE: Unless otherwise noted, all functions described in this manual use mouse input.

To use a mouse with the system connect the mouse to the **USB MOUSE port** on rear of the DVR.

NOTE: The USB ports are exclusive to the device intended. The top USB port is for data backup to a USB flash drive, the bottom port is for connecting a USB mouse.

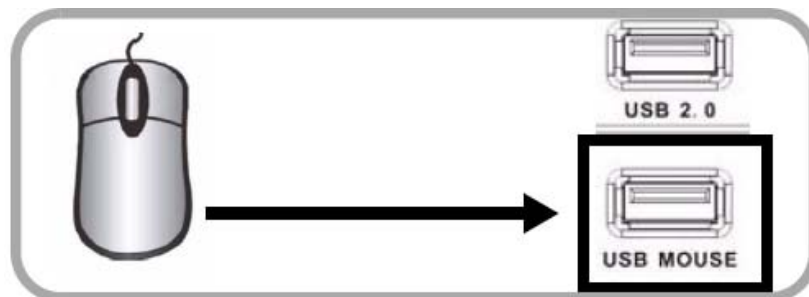


Figure 1.0 Connect a USB mouse to the bottom USB port on the rear panel

- 1) The mouse buttons perform the following:
 - **Left-Button:** Click to select a menu option; during live viewing in split-screen, double-click on a channel to view the selected channel in full-screen.; double-click the channel again to return to split-screen view
 - **Right-Button:** Click to open a Sub-Menu
 - **Scroll-Wheel:** No function.

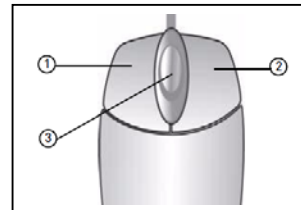
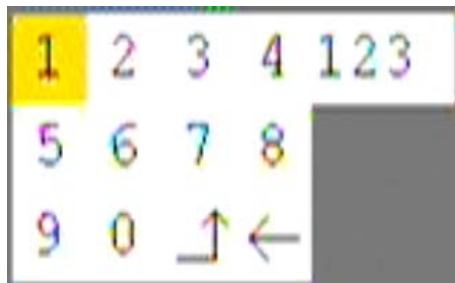




Figure 1.1 Mouse button operation

2) **Virtual Keyboard** (Mouse)

When using the mouse, input values using the onscreen virtual keyboard. You will need to use the Virtual Keyboard when entering your User ID and Password.

To use the Virtual Keyboard:













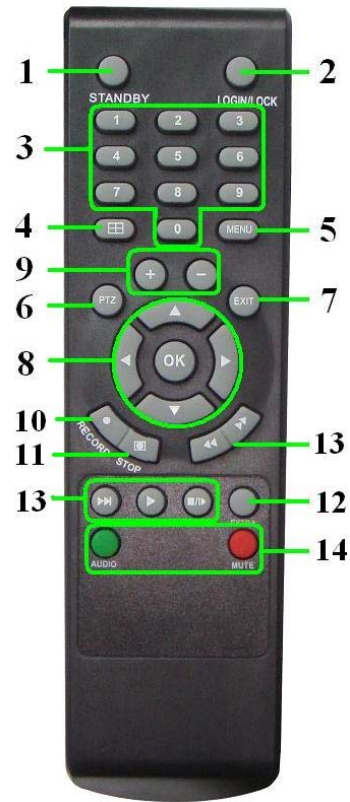
1. Click on an option or field, such as the User ID and Password fields.
2. Click 0~9 to key-in the desired digit.
3. Click **123** to switch between numerals, upper and lowercase letters, and other characters.
4. Click  to Backspace/Delete.
5. Click  to enter/confirm and close the Virtual Keyboard.

- The Virtual Keyboard buttons will turn from orange to white when selected with the mouse.

3.2 REMOTE CONTROL OPERATION

The remote control is the secondary device for navigating the system's interface.

1. **STANDBY**: Press to turn on/off standby mode.
2. **LOGIN/LOCK**: If "Security" has been enabled in the setup menu, press to open the user login screen.
3. **Number/Channel buttons**: While in menus buttons enter values; during live viewing, press to view channels in full-screen.
4. : Press to switch between quad and split-screen.
5. **MENU**: Opens the main menu.
6. **PTZ**: Opens the PTZ control interface.
7. **EXIT**: Close menu windows.
8. **Navigation/OK**:
 - : Move cursor in menus up, Channel up.
 - : Move cursor in menus right, Channel up, During playback increases forward playback speed.
 - : Move cursor in menus left, Channel down, During playback increase reverse playback speed.
 - : Move cursor in menus down, Channel down.
 - **OK**: In menus, press to confirm selections.
9. **+/-**: In menus, press to adjust values.
10. **RECORD**: Press to start manual recording.
11. **STOP**: Press to stop manual recording.
12. **EXTRA**: Not applicable.
13. **Playback controls**:
 - : Increase reverse playback speed 2X, 4X, 8X, 16X, 32X.
 - : Press to start playback.
 - : Press to increase forward playback speed 2X, 4X, 8X, 16X, 32X.
 - : Press to slow playback speed by 1/2, 1/4, 1/8, 1/16, 1/32.
 - : Press to freeze playback, press again to advance frame-by-frame.
14. **AUDIO/MUTE**: Allows control of live and recorded sound.



TIP: When using the remote control to enter password and camera titles, select the field using the navigation buttons press ENTER, and then press the number buttons.

3.2.1 Use Remote control to select the device number:

You can control several DVRs using one remote control. Press the "**LOGIN/LOCK**" key, and enter the device number to control a specific DVR. The device number is set in "PASSWORD" setup menu.

For example to select the device with number "000001".

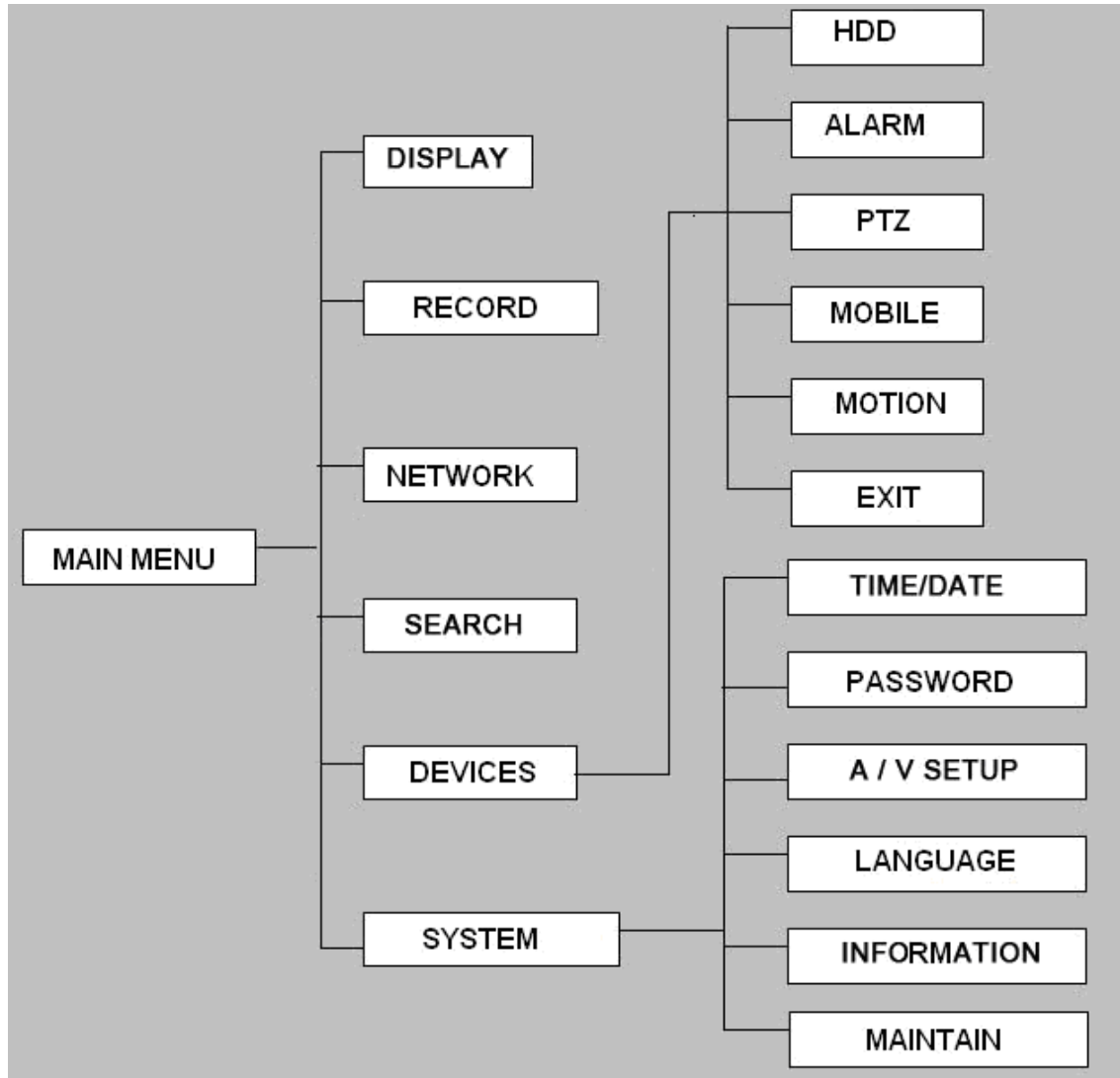
Press "**LOGIN/LOCK**" + "**1**" for the remote to control DVR as device 1.

NOTE:

1. The remote is set to control a DVR with device number "000000" as the default.
2. Press "**LOGIN/LOCK**" + "**0**" for the remote to control and DVR with any device code.
3. The number assigned to a DVR must be lower than 000255.

3.3 MENU TREE

Use the mouse to control the DVR and navigate the menus. The tree diagram below is a quick reference to help keep track of menu levels and functions. The menu functions are explained on the following pages.



3.4 SYSTEM OPERATION

3.4.1 USER LOGIN

3.4.1.1 STARTING THE SYSTEM

To power the system ON/OFF connect the power cable to the DC 12V port on the rear panel. At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

1) If there is no HDD in the device, the device can't read the HDD, or the HDD isn't formatted it will display an "H" in the video on the screen.

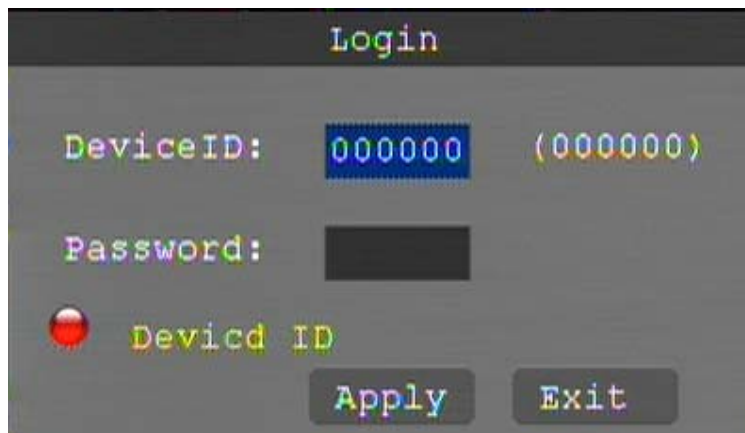
2) You must format the HDD in the DVR before first use. The steps as follows: MainMenu > Device>HDD management > format. When HDD format is complete, the system will restart.

3.4.1.2 SYSTEM LOGIN

By default, passwords are **disabled** on the system; you do not need to enter a password when accessing any system menus. However, for security purposes it is highly recommended to enable passwords on the system using the Password Menu.

If you have enabled password and set up user accounts you will see the following screen when you log into the DVR. Input device ID and user password and press "Apply" to access the main menu.

NOTE: Default device ID is: 000000. Default Admin password is 519070. Default User password is 000000. To manage the device more conveniently, setup the user passwords and change the device ID in the base setup. Administrator has full device authority; User has limited authority; view and playback.

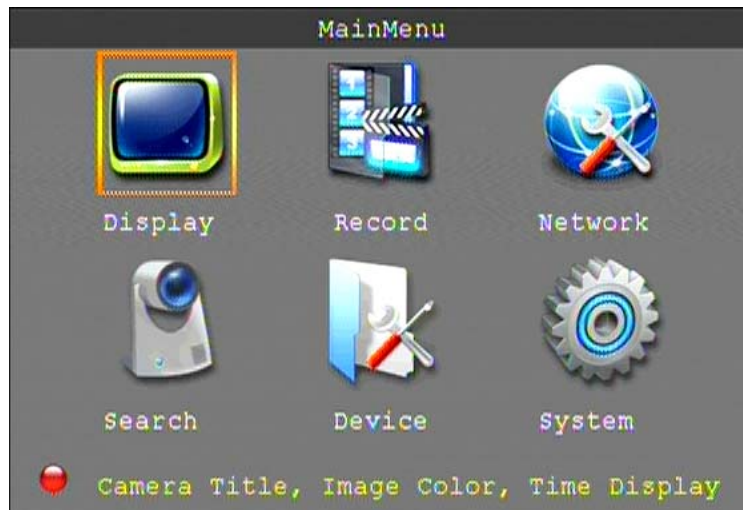


DEVICE ID: Enter the unit ID (000000 ~ 000255)

PASSWORD: Enter the Admin password or User password

3.4.2 GUI OPERATION

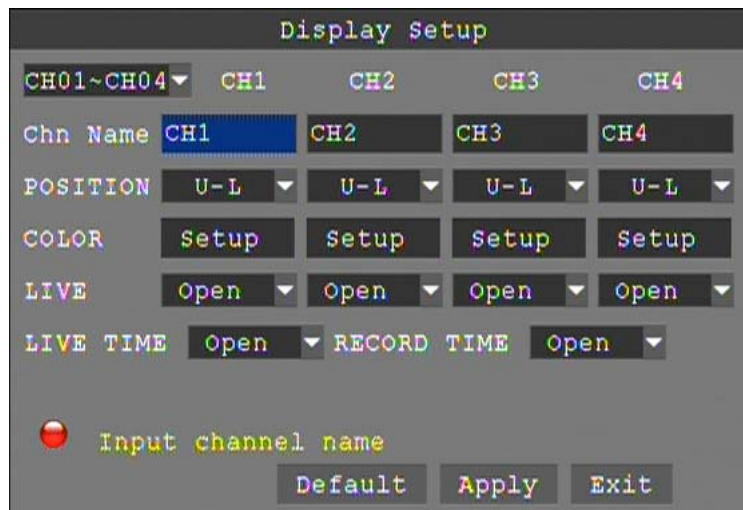
The main menu; "DISPLAY", "RECORD", "NETWORK", "SEARCH", "DEVICES", and "SYSTEM".



Note: The menu will display the sub-menu functions when you mouse over the menu icon.

3.4.2.1 DISPLAY

Click "DISPLAY" on the main menu to enter the display settings interface.



CH01 ~ CH04: Click to select the channel to change settings.

CHN NAME: Click to enter channel description names into the system.

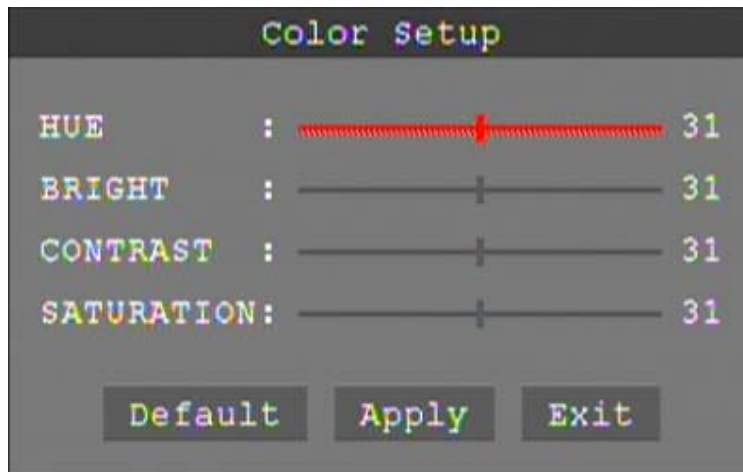
POSITION: Click to switch name location; there are 5 options.

COLOR: Click to enter camera setting interface as follows. See below for detailed information.

LIVE: Click to select; Open the view of the camera, Close the view of the camera.

LIVE TIME: Display time while in live view; Open: Yes, Close: No.

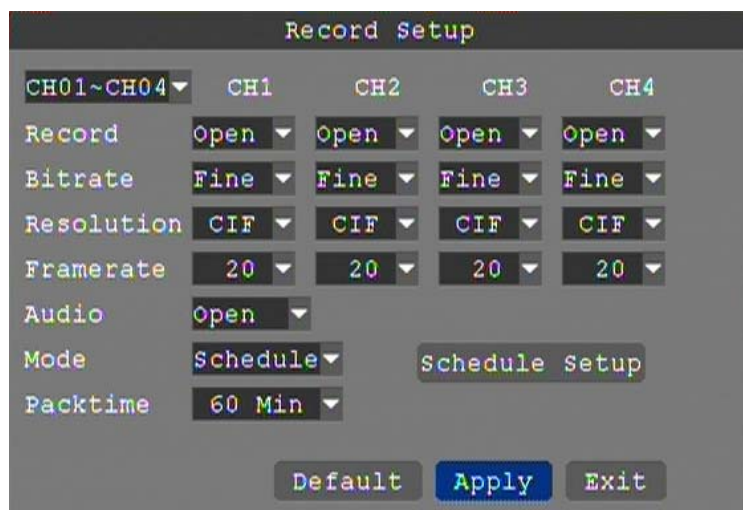
RECORD TIME: Display time while recording; Open: Yes, Close: No.



Click and drag the cursor to adjust settings. Click "APPLY" to save the parameters

3.4.2.2 RECORD SETUP

Click "RECORD" on the main menu to enter into the record settings interface.



CH01~CH04: Click to select the channel to change settings.

RECORD: Open: Channel recoding enabled, Close: Channel recording disabled.

BITRATE: Click to select the bitrate for best data compression.

RESOLUTION: Click to select the resolution of recorded video: D1; 720 x 480, Half D1; 720 x 240, CIF; 352 x 288

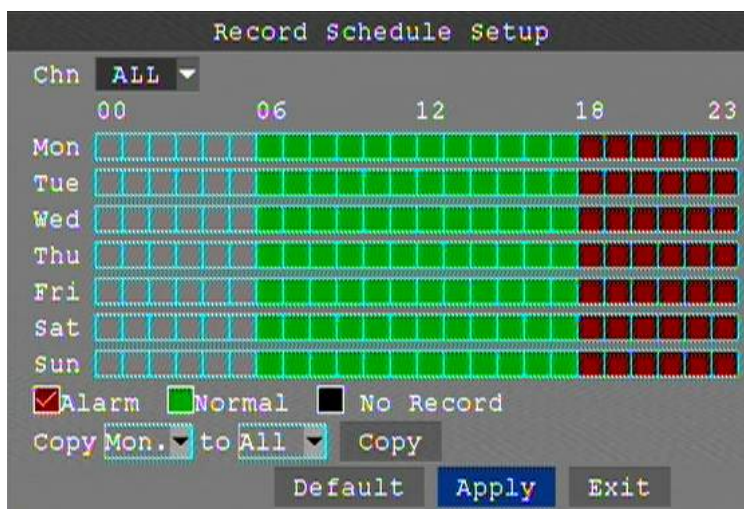
FRAME RATE: Click to select the recoded frame rate.

AUDIO: Not applicable

MODE: Always: DVR will begin recording at startup, Schedule: DVR will record by a set schedule.

PACK TIME: Four options; 15min, 30min, 45min, 60min, this breaks video recoding into more manageable chapters.

SCHEDULE SETUP: See below for detailed information.



CHANNEL: Click to select all channels or just one channel for schedule recording.

WEEKLY: Setup each channel as desired, there are three modes; ALARM, NORMAL, NO REC, the selected mode will display a "check mark". You can copy a daily setting to other days. Different colors indicate different record mode: Red for alarm record, green for normal record, blank for no record.

Click **APPLY** then **Enter** to save new settings.

3.4.2.3 NETWORK SETUP

Click the "NETWORK" to enter network settings interface.

TYPE: Two options; DHCP and Static IP address.

STATIC

TYPE: Select "Static" to set your preferred DVR IP address on your network.

PORT: This is the out-bound port for video transmission.

WEB PORT: This is the in-bound contact port for HTTP.

IP ADDRESS: Set an IP address and press "Enter". Address should not conflict with automatically assigned addresses (DHCP) from the router.

NETMASK: Enter the Netmask settings; this is normally a default setting.

GATEWAY: Enter the Gateway settings; this is the address of your router on your network.

The screenshot shows the 'Network Setup' menu. The 'Type' is set to 'Static'. The 'Port' is 09000, 'Web Port' is 00080, 'IP Addr' is 192.168.001.100, 'Netmask' is 255.255.255.000, 'Gateway' is 192.168.001.001, and 'DNS Server' is 202.096.134.133. There is a 'DDNS Setup' button and three buttons at the bottom: 'Default', 'Apply', and 'Exit'.

Field	Value
Type	Static
Port	09000
Web Port	00080
IP Addr	192.168.001.100
Netmask	255.255.255.000
Gateway	192.168.001.001
DNS Server	202.096.134.133

Buttons: DDNS Setup, Default, Apply, Exit

DHCP

Select "DHCP" for the DVR to automatically negotiate an IP address from the router.

PORT: This is the out-bound port for video transmission.

WEB PORT: This is the in-bound contact port for HTTP.

The screenshot shows the 'Network Setup' menu. The 'Type' is set to 'DHCP'. The 'Port' is 09000, 'Web Port' is 00080, and 'IP Addr' is 192.168.001.100. The 'DNS Server' is 202.096.134.133. There is a 'DDNS Setup' button and three buttons at the bottom: 'Default', 'Apply', and 'Exit'.

Field	Value
Type	DHCP
Port	09000
Web Port	00080
IP Addr	192.168.001.100
DNS Server	202.096.134.133

Buttons: DDNS Setup, Default, Apply, Exit

DDNS

Select "Open" if you are using DDNS or "Close" if you are not using DDNS service with your DVR.

SERVICE: The DVR supports 3 DDNS services; 3322, dyndns, and perfecteyes.

HOST NAME: Input the host name you created when you opened your DDNS account.

USERNAME: Input the user name you created when you opened your DDNS account.

PASSWORD: Input the password you created when you opened your DDNS account.

Click "Apply" then "Exit" then reboot your DVR for changes to take effect.

3.4.2.4 SEARCH

Click "Search" on the main menu to enter into the search settings interface.

DATE: To narrow your search criteria you can enter date and time directly into the fields by overtyping the current date and time. You can use the mouse and virtual keyboard or use the numeric keys on the remote control. Click "Search", click "Apply" to view the recorded information.

MONTH: Displays the recording status in the displayed month; Green = Normal, Red = Alarm, and No background color = No Recording. Click any date to display the recording status for that date; the search result will be displayed in the detail files screen.

DAY: Will show all the recording status of the day; to playback the recorded file click the corresponding period.

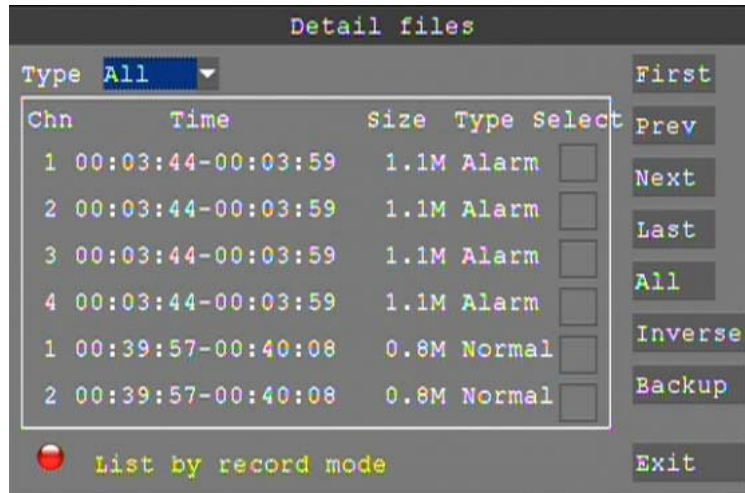
PLAY: You can enter a number directly into the time field by overtyping the current time. After setting the time, move the cursor to "PLAYBACK" and press "APPLY" to enter video playback of that time. You can select any period of time from the video status frame after searching; click "Apply" to view the recorded information.

DETAIL FILES: Click to display the video file list interface for the selected date. See below for more detail.

LOG SEARCH: Click to access the log search interface. See below for more detail.

DETAIL FILES

In the Record search menu click on a date to select, click on "Detail Files" then "Apply"; this will display a list of video files for the day.



You can then select up to four channels to play back at the same time.



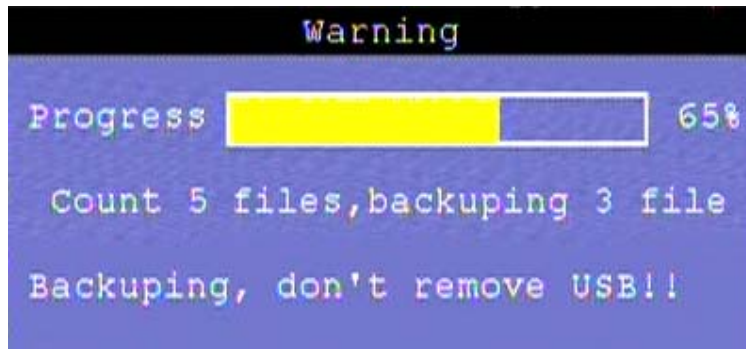
Instruction:

1. "DETAIL FILES"; "Chn" is the channel the video is recoded to, "Size" is the size of the file (in MB), "Type" is the type of recording file; normal or alarm. You can "Select" channels and export to a USB (thumb) drive by clicking "Backup".
2. Select the channels you wish to view and click "Apply" to move to the playback screen. If all channels have recorded files, the DVR will playback all channels simultaneously.
3. If setup as "Open" in the "RECORD TIME" in "DISPLAY", it will show the date/time when playback record file; If setup as "Close" it will not display time.
4. In playback mode press "▶▶" to slow playback; press "▶▶" and "◀◀" to fast forward or rewind, press "■▶" to pause and advance frame by frame. Press "Exit" to exit from playback and return to the previous menu.
5. When playback is completed the DVR will return to the file list screen.

BACKUP

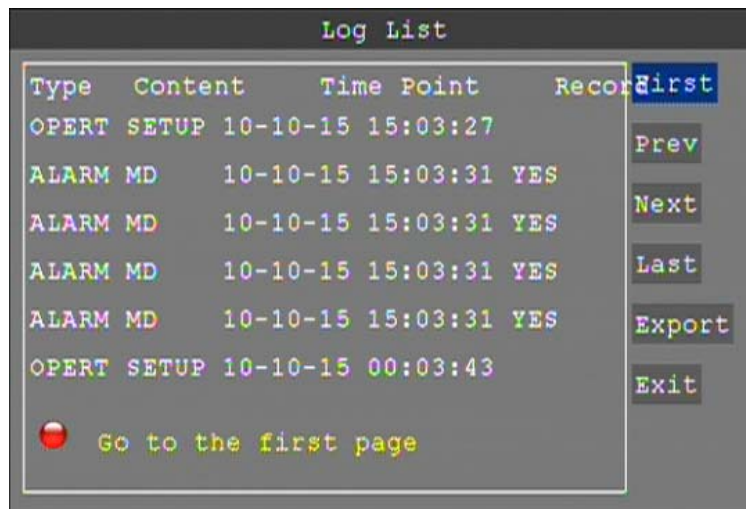
You can backup files directly from the DVR onto a USB flash drive. The DVR supports USB 2.0 and USB OTG devices. Insert the USB flash drive into the USB port before you begin to backup files.

Select the files by clicking in the "Select" box. You can un-select files by clicking in a "Select" box that has been checked. Click "Backup" to begin exporting files to the USB flash drive. If the backup files are larger than available space on the flash drive the DVR will display "Space no enough". You can remove the flash drive immediately after backup.



LOG SEARCH

Move the cursor to "LOG SEARCH" and press "APPLY" to enter into the log file list of DVR, as follow window.



TYPE: Alarm types are "Alarm", "Motion", and "Scheduled".

TIME: is the time the event triggered the DVR to record.

VIDEO: indicates if video was recorded along with an alarm event.

3.4.2.5 DEVICE SETUP

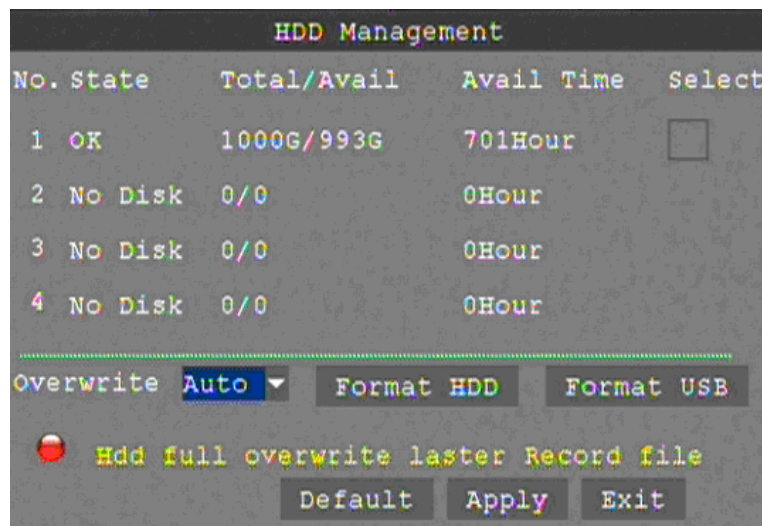
Click "DEVICE" on the main menu to enter into the device settings interface.



Advanced Features include HDD, ALARM, PTZ, MOBILE and MOTION DETECT.

HARD DRIVE MANAGEMENT

Click "HDD" to enter the hard drive settings interface.



HDD STATUS: "OK" indicates that the HDD is operating properly. A malfunctioning or unformatted HDD will indicate "Failure". In the case of a HDD failure or unformatted HDD an "H" will be displayed on the live view. You can reformat the HDD from this menu.

OVERWRITE: Two options available for recording to the HDD. ENABLE: allow the DVR to overwrite older files with newer. Depending on the settings of your DVR you can anticipate 3 weeks on a 500 GB HDD with a 4 camera system. Disable: the DVR will only record to the end of the HDD storage capacity. When less than 500 MB remains available on the HDD, the DVR will display on the live view "please shutdown and replace HDD". You can reformat the drive or replace with another and archive your files.

HDD FORMAT: Select to format the HDD.

FORMAT USB: Select to format a USB flash drive; recommended for the flash drive you will use.

ALARM SETUP

Click "ALARM" to enter the alarm settings interface.

Alarm Setup

CH01~CH04 CH1 CH2 CH3 CH4

I/O Alarm NO NO NO NO

HDD Loss Open No Space Open

Video Loss Open

Alarm Control Output 10sec Buzzer Close

Duration 1min Pre Rec Close

Default Apply Exit

CH01~CH04: Click to select the channels for alarm setup.

I/O ALARM: Not Applicable

HDD LOSS: Select "Open" to trigger an alarm if there is no HDD, an "H" will display on the bottom left of channel 1 in live view.

HDD SPACE: Select "Open" to trigger a notification in live view if there is less than 500 MB storage on the HDD. This is only applicable if HDD Overwrite is enables.

VIDEO LOSS: Select "Open" to display "video loss" in live view when a channel has no video.

ALARM CONTRL: Controls the alarm buzzer output and duration associated with an alarm event.

- **OUTPUT:** The alarm output duration can be set to: 0, 10, 20, 40, or 60 seconds.
- **BUZZER:** The buzzer output duration can be set to: 0, 10, 20, 40, or 60 seconds.
- **DURATION:** The post alarm recording time can be set to: 30 seconds, 1, 2, or 5 minutes.
- **PRE REC:** Pre-alarm recording can be set to: Off = Close, or On = Open

Email setup

The DVR can be configured to send an e-mail alert if the DVR senses an alarm event.

Email Setup

Email Enable

SSL ☒ open ☐ close

SMTP Port 00000

SMTP Server

Sender Email

Sender Pwd

Receiver Email

Interval 3min

Default Apply Exit

Email: Enable = On, Disable = Off

SSL is a security link transport protocol that allows you to encrypt your communication information, including your email. Using SSL helps to prevent hackers from monitoring your email or communication information, even your password. Please confirm with your email service provider that your email server supports SSL.

SSL: Enable = On, Disable = Off

SMTP (Simple Mail Transfer Protocol) is an internet standard for e-mail transmission via IP networks.

SMTP Port: The specified send port for the SMTP server (forwarding server/host). In general the SMTP port is 25, to support G-mail use SMTP port 465. If SSL is enabled use port 465 (default value). If SSL is disabled use port 25 (default value).

Sender E-mail: Enter your e-mail address.

Sender PWD: Enter your e-mail password.

Receiver E-mail: Enter the e-mail address of the intended recipient.

PTZ SETUP

Click "PTZ" to enter the PTZ settings interface.

CH01~CH04: Click to select and set-up the channel a PTZ camera is connected to.

PROTOCOL: Click to select the camera communication protocol. The DVR supports Pelco-D and -P protocol, the default is Pelco-D.

BAUD RATE: Click to select the baud rate for your PTZ; 1200, 2400, 4800, or 9600 Bps.

DATA BIT: Click to set data-bit; 5, 6, 7, or 8, the default setting is 8.

STOP BIT: Click to set the stop-bit; 1 or 2, the default setting is 1.

PARITY: Click to set parity; None, Odd, Even, Mark, or Space, the default setting is None.

CRUISE: ON allows the camera to follow a preset cruise path for a designated channel.

OFF turns auto cruise off for a designated channel.

ADDRESS: Set the address or device number of the PTZ camera.

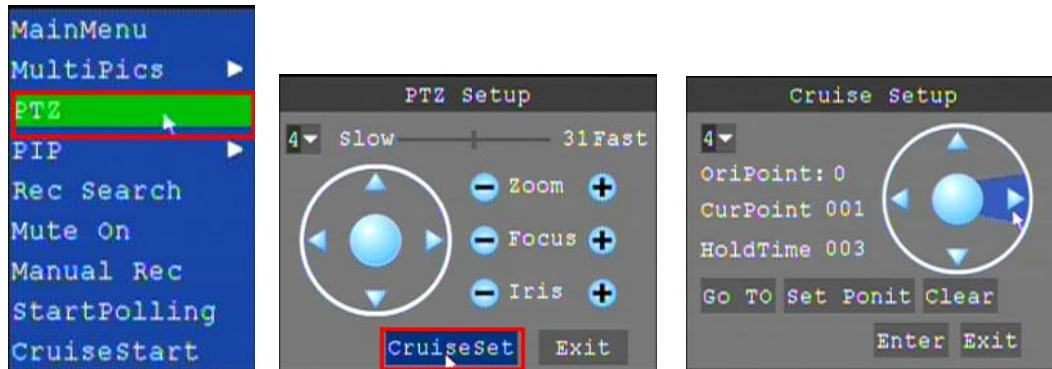
The screenshot displays the 'PTZ Setup' window with a table of settings for four channels. The settings are as follows:

	CH1	CH2	CH3	CH4
PROTOCOL	Pelco-D	Pelco-D	Pelco-D	Pelco-D
BAUD RATE	9600	4800	9600	9600
DATA BIT	8	8	8	8
STOP BIT	1	1	1	1
PARITY	Odd	Odd	Odd	Odd
CRUISE	off	off	off	off
ADDRESS	001	001	001	001

At the bottom of the window are three buttons: 'Default', 'Apply', and 'Exit'.

PTZ Control

From the live view screen, right click for the drop down menu. Click on PTZ to bring up the PTZ control menus below.

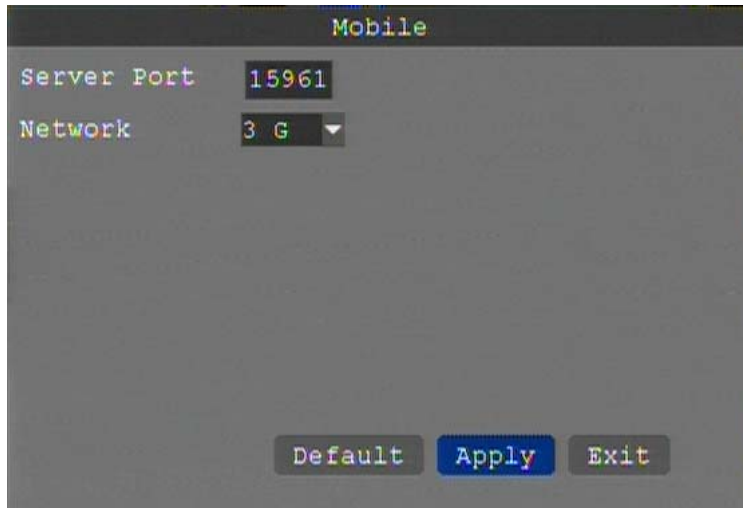


Functions:

	Pointer	To set the pan/tilt direction of the PTZ camera
	Auto Pan	Set the PTZ camera to auto pan
	Zoom in / out	Tighter magnification / Wider view
	Focus	Adjust the focus of an equipped camera
	Iris	Adjust the iris aperture of an equipped camera
	Speed	Set the PTZ camera control speed
	Channel select	Select the channel of the PTZ camera to control
	CruiseSet	Turn on the preset auto-cruise
	Exit	Return to the previous screen
	Go to preset point	Go immediately to a preset point
	Set Point	Set-up specific or fixed points for the PTZ camera
	Clear	Delete the selected preset
	Oripoint	Set an origin point into memory
	Curpoint	Indicates the preset point a camera is in
	Holdtime	Set a stop point into memory
	Save	Save the changes and preset points

MOBILE

Click "MOBILE" to enter the mobile phone settings interface. You will need a smart phone with web access and a data plan to use this option.



USER NAME: Enter the user name used to login into the DVR; for example "admin".

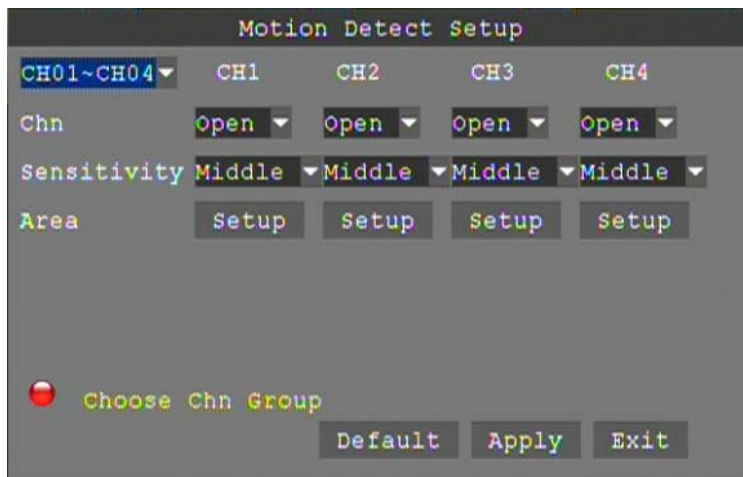
PASSWORD: Enter the password used to login into the DVR; 519070 is the default.

SERVER PORT: Enter the port number for mobile view. This port must be forwarded in your router. Please note that the DVR server port is not the same value as the mobile server port.

NETWORK: Select the mobile network; 2.5G, 2.7G, 3G or WIFI.

MOTION DETECT

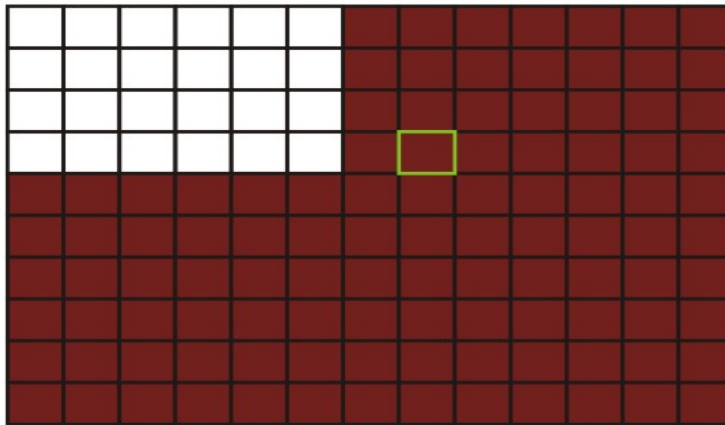
Click "MOTION" to enter the motion detection settings interface.



CHN: Select the channel to set up and enable motion detection.

SENSITIVITY: Set the sensitivity level; highest, high, middle, and low. If you receive a lot of false motion recordings set to lower sensitivity.

AREA: Set the coverage area to be monitored for motion; red means monitored, transparent means not monitored.



Using the remote control: Use the direction key to move the cursor to the desired grid segment; green indicates the cursor is on a specific grid segment, press enter to activate the segment. When set-up is complete select exit to return to the previous menu screen.

Using the mouse: Move the mouse to the desired grid segment; green indicates the cursor is on a specific grid segment, left click to activate the segment. When set-up is complete select exit to return to the previous menu screen.

Remark:

IR Operation: press [Menu] key to select or cancel the entire screen.

Mouse operation: click left and drag the frame to setup the region for motion detection.

3.4.2.6 SYSTEM SETUP

Click "SYSTEM" to enter the system settings interface.



System setups include: time/date, password, video/audio setup, language, system information and system maintenance.

DATE/TIME SETUP

Click "TimeDate" to enter the time and date settings interface. Stop DVR recording prior to setting the date and time.

Time Setting

Date 10/15/2010 Date Format MM/DD/YY

Time 08:58:33 Time Format 24Hours

Time Zone GMT+08:00

DST Setting Open DST Mode Custom

StartTime:2:00 AM. 1st Week Sun. JAN

End Time :2:00 AM. 1st Week Sun. JAN

Default Apply Exit

DATE: Overtyping the date setting in the date field using the virtual keyboard or the number keys on the remote control.

DATE FORMAT: Click to choose your preferred date format; YY/MM/DD or MM/DD/YY.

TIME: Overtyping the time setting in the time field using the virtual keyboard or the number keys on the remote control.

TIME FORMAT: Click to choose your preferred time format; 12 Hours or 24 Hours.

DST: Click to select Daylight Saving Time as applicable to your region.

Click "Apply" to save the new settings.

PASSWORD

Click "PASSWORD" to enter the password settings interface.

Password

Device ID 000010

Password Open

User ***** Confirm *****

Admin ***** Confirm *****

Password must be 6 digits

Apply Exit

DEVICE ID: Enter a number between 000000 and 000255 to create a unique device ID for the DVR.

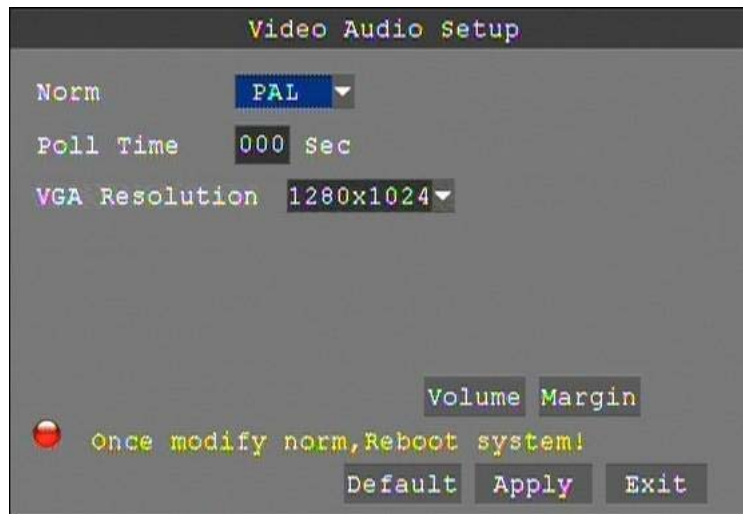
PASSWORD: Click to choose if you will require a password to log into the DVR. "OPEN" will require a password upon log-in and "CLOSE" will not require a password to access the DVR.

USER PASSWORD: Set a password for a system user (limited system control).

ADMIN PASSWORD: Set a password for a system administrator (full system control).

VIDEO/AUDIO SETUP

Click A/V Setup to enter the A/V settings interface.



NORM: Click to select your country's video standard; NTSC (US) or PAL (Europe).

POLL TIME: Set the time interval between channel / group changes.

SEQUENCE: Set the sequence cameras / groups will change.

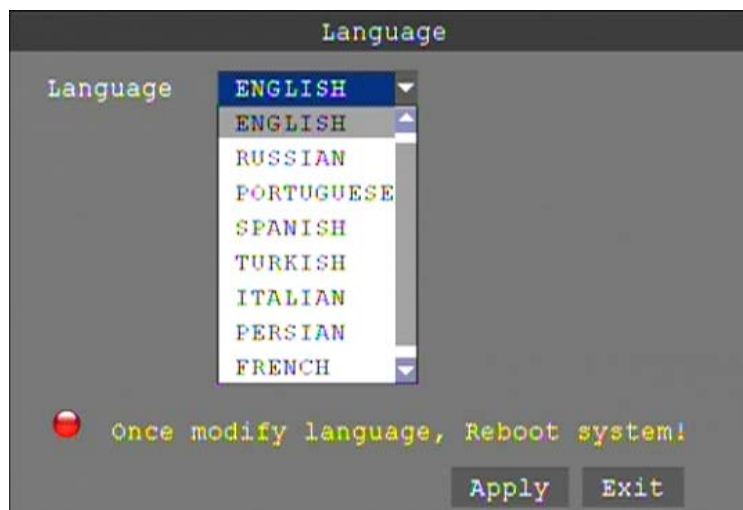
VGA RESOLUTION: Click to select the video resolution for the "VGA" output; 1024*768, 1280*1024, 1920*1080, 1440*900.

VOLUME: Click "Volume" to enter settings for the volume level.

Reboot the DVR after making changes to the Audio and Video settings.

LANGUAGE

Click "LANGUAGE" to enter the language settings interface.

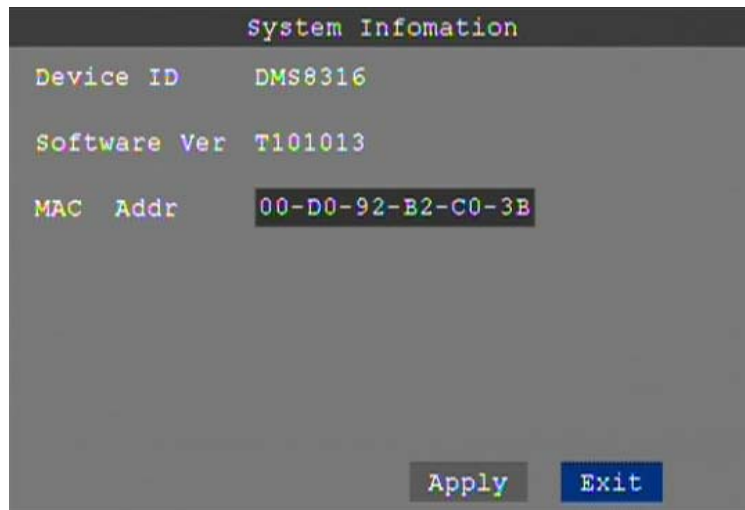


Select the language you want the DVR to display; Chinese, English, Russian, Portuguese, Spanish, Turkish, Italian, Persian, French or Polish.

Reboot the DVR after making changes to the Language settings.

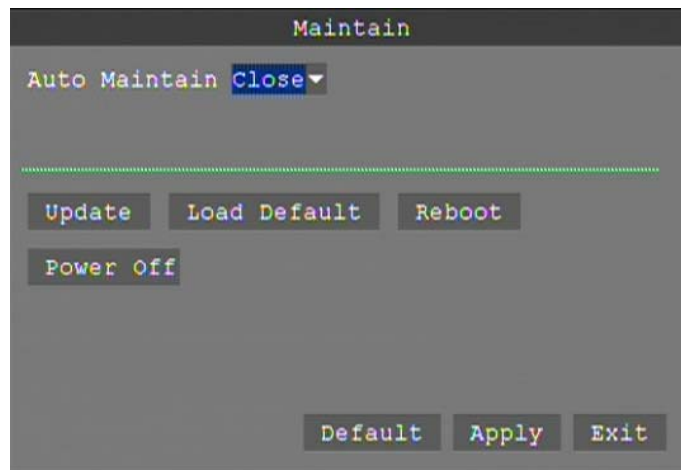
SYSTEM INFORMATION

Click "INFORMATION" to enter the system information setting interface; displays system hardware features and firmware version, including: Device ID, Software Version and MAC Address.



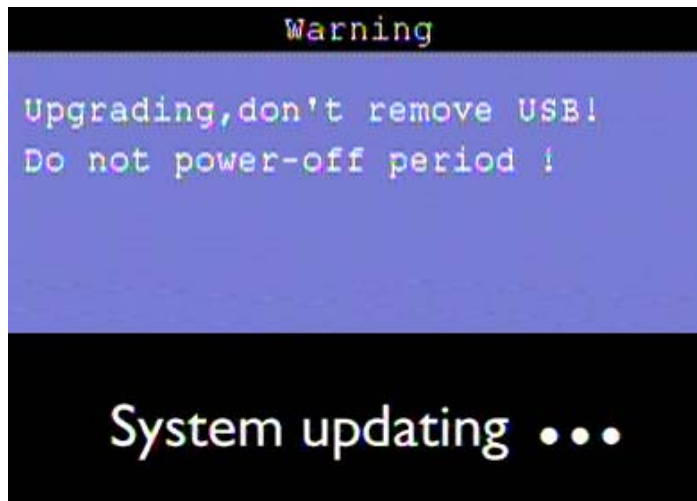
SYSTEM MAINTAINANCE

Click on "MAINTAIN" to enter the system maintenance setting interface.



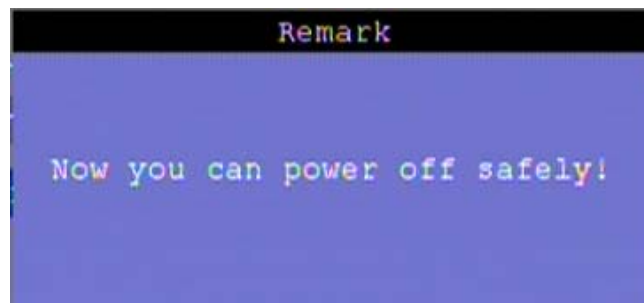
AUTO MAINTAIN: Click to set the DVR for auto maintenance. Close turns off auto maintenance, Open turns on auto maintenance and allows you to schedule regular system reboots.

UPDATE: Click to start a software update; on a flash drive create a folder called "dvrupgrade" and copy the software update to that folder. Insert the flash drive into the USB port on the DVR and press "Enter". The system will begin the software update and will display the message below.



REBOOT: Click to restart the DVR. This is common after making important system changes.

POWER OFF: Click to shut down the DVR.



4 NETWORK OPERATION

4.1 USE CLIENT SOFTWARE TO OPERATE THE DVR FROM YOUR PC

With the DVR connected to your network the Client Software allows you to operate the DVR from your PC.

4.1.1 Install NVClient software

The Client Software can be found on the CD included in the accessory box.

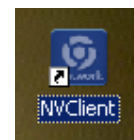
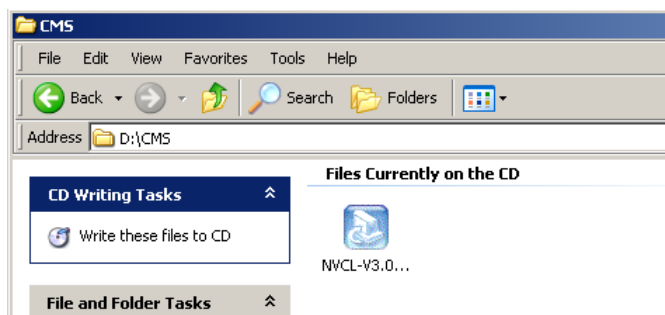
4.1.1.1

Load the CD into your CD/DVD drive and open the "CMS" file folder.

Double click "NVCL..." to install the Client Software.

A shortcut will be placed on your desktop, double click to launch NVClient.

NOTE: Full instructions for use of NVClient can be found on the CD in the "CMS" file folder.



4.1.2 Log into NVClient

The first time you launch NVClient you will set up a User Name and a Password. This username and password is for NVClient software only and not used to log into your DVR. You will use this name and password each time you launch NVClient in the future.

Username: Enter a username that you will use each time you launch NVClient.

Password: Enter a password that you will use each time you launch NVClient.

Re Input: Confirm the password that you will use each time you launch NVClient.

Register Administrator

Register a user for admin.

User Name:

Password:

Re Input:

Ok Cancel

4.1.2.1 Local Setup

Click "Local Setup" to enter into the server setup menu.



4.1.2.2 Common Setup Tab

Under server manage click on "Add" to enter the Add Server settings interface.

Server Type: Click to choose the DVR server type; select 37DVR.

Address: Enter the IP address of the DVR from the network setup menu.

Local Name: Assign a name to easily recognize a DVR if you have more than one.

CMD Port: Enter the port number used on your router to stream video from the DVR.

Stream Type: Select Main Stream.

Enable Auto Logon: Click to allow NVClient to log into the DVR.

Channel Num: Select the active number of channels in the DVR.

User Name: Enter the user name used to log into the DVR.

Password: Enter the password used to log into the DVR.

The screenshot shows the 'Add Server' dialog box within the 'Local Setup' application. The dialog box is titled 'Add Server' and contains the following fields and options:

- Server Type:** 37DVR (dropdown)
- Address:** 192.168.1.222 (text box)
- Local Name:** Home DVR (text box)
- Remote Name:** (empty text box)
- CMD Port:** 7777 (text box)
- Stream type:** LAN (dropdown)
- Remark:** (empty text box)
- Group:** Video Encode (dropdown)
- Information:** (empty text box)
- ☒ **Enable Auto Logon:**
 - Channel Num:** 0 (spin box)
 - User Name:** admin (text box)
 - Password:** (masked text box)
- ☐ **View Video By RTSP:**
 - Channel:** Channel1 (dropdown)
 - RTSP link:** (empty text box)

Buttons at the bottom: Ok, Cancel, Apply.

4.1.2.3 Setup Ex Tab

Enable Sync Time On Server Open: Check

On Start App, Auto Open Server: Check

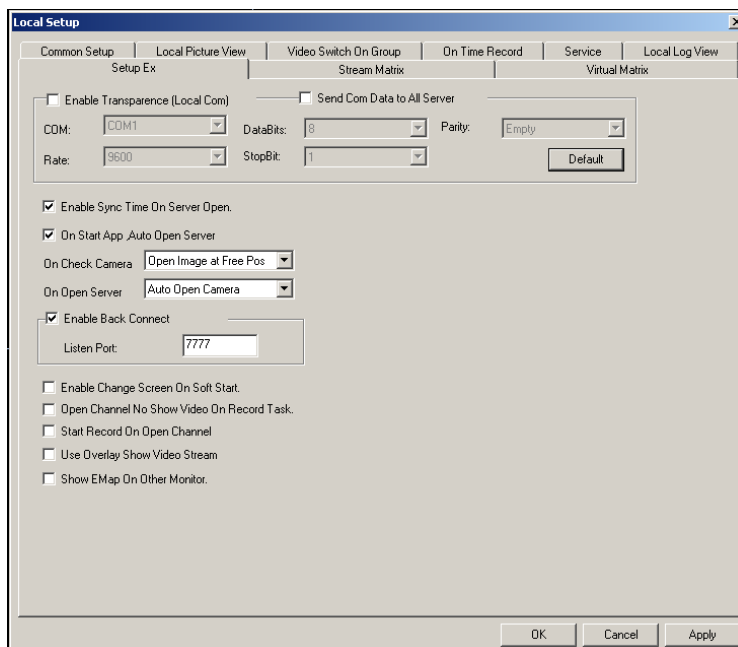
On Check Camera: Select "Open Image at Free Position"

On Open Server: "Select Auto Open Camera"

Enable Back Connect: Check

Listen Port: Enter the port number used on your router to stream video from the DVR.

Click "Apply and then "OK" to return to the DVR live view.



NOTE: The user name and password used to log into the DVR may or may not be the same user name and password used to log into NVClient.

4.1.3 Log out of NVClient

Exit: Click the "X" in the top right corner to exit NVClient.

Username: Enter your NVClient user name, I. E.: admin

Password: Enter your NVClient password.

4.1.4 Log into NVClient

Once you have set up the parameters in NVClient you can begin to use the software to access your DVR. Click on the NVClient shortcut on your PC desktop to launch NVClient.

User Name: Enter the user name you chose for NVClient in step 4.1.2.

Password: Enter the user name you chose for NVClient in step 4.1.2.

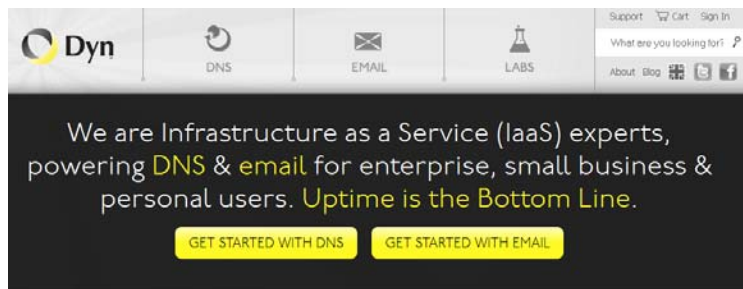
4.2 USE A DYNAMIC DOMAIN NAME TO OPERATE THE DVR FROM A PC OVER THE INTERNET

Now that you have mastered operation of the DVR using NVClient software and a PC on your home network you will want to operate the DVR remotely from your office or friend's PC.

Note: Most residential internet service uses a dynamic IP address that will change periodically, therefore you will need to sign up for dynamic domain name hosting from a source like DYN.com

4.2.1 Sign up for a dynamic domain name at DYN.com

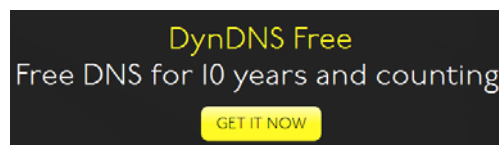
Click: "Get Started With DNS"



Click: "DynDNS Free" at the bottom of the screen.



Click: "Get It Now"



Hostname: enter a hostname of your choosing I.E.: talosdvr along with an extension I.E.: dyndns.tv

IP Address: Enter the IP address at the location the DVR will be running. The IP address of your current location is shown below the IP Address field. We recommended you set up your DYN account using a PC connected to the network the DVR will be connected.

Add To Cart: Click "Add To Cart" and then proceed to checkout. The web site will walk you through account registration and send an e-mail to you with a link you must click before final activation. Note that the amount shown in all cost fields will be \$0.00

Hostname:	<input type="text"/>	<input type="text" value="dyndns.tv"/>
Wildcard:	<input type="checkbox"/> create "*" host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)	
Service Type:	<input checked="" type="radio"/> Host with IP address <input type="radio"/> WebHop Redirect (URL forwarding service) <input type="radio"/> Offline Hostname	
IP Address:	<input type="text"/> Your current location's IP address is	
	IPv6 Address (optional): <input type="text"/>	
	TTL value is 60 seconds. Edit TTL...	
Mail Routing:	<input type="checkbox"/> I have mail server with another name and would like to add MX hostname...	
<input type="button" value="Add To Cart"/>		

4.2.2 Set up the DVR for access using a dynamic domain name service

4.2.2.1 Network settings

TYPE: Select "Static" to set your preferred DVR IP address on your network.

PORT: This is the out-bound port for video transmission; enter 7777.

WEB PORT: This is the in-bound contact port for HTTP. The normal value is 80, if your ISP blocks 80 you will need to select a different port number like 8081.

IP ADDRESS: Set an IP address and press "Enter". Address should not conflict with automatically assigned addresses (DHCP) from the router, I.E.: 192.168.1.222

NETMASK: Enter the Netmask settings; this is normally a default setting.

GATEWAY: Enter the Gateway settings; this is the address of your router on your network., I.E.:192.168.1.1

The screenshot shows a 'Network Setup' menu with the following fields and values:

Field	Value
Type	Static
Port	07777
Web Port	00080
IP Addr	192.168.001.100
Netmask	255.255.255.000
Gateway	000.000.000.000
DNS Server	000.000.000.000

Below the fields is a 'DDNS Setup' button. At the bottom of the screen are three buttons: 'Default', 'Apply', and 'Exit'.

4.2.2.2 DDNS settings

DDNS Setup: In the Network Setup Menu click "DDNS Setup".

DDNS: Select "Open" to use a Dynamic Domain Name Service with the DVR.

SERVICE: Select "dyndns" as your DDNS service.

HOST NAME: Input the host name you created when you opened your DDNS account.

USERNAME: Input the user name you created when you opened your DDNS account.

PASSWORD: Input the password you created when you opened your DDNS account.

DDNS Setup

DDNS Open ▾

Server dyndns ▾

Hostname talosdvr.dyndns.tv

Username admin

Password *****

Default
Apply
Exit

Click "Apply" then "Exit" then reboot your DVR for changes to take effect.

4.2.3 Setup the Router for Port Forwarding

We are using a popular Linksys router for our example. Refer to your router user manual or visit portforwarding.com for instructions to forward ports in your router.

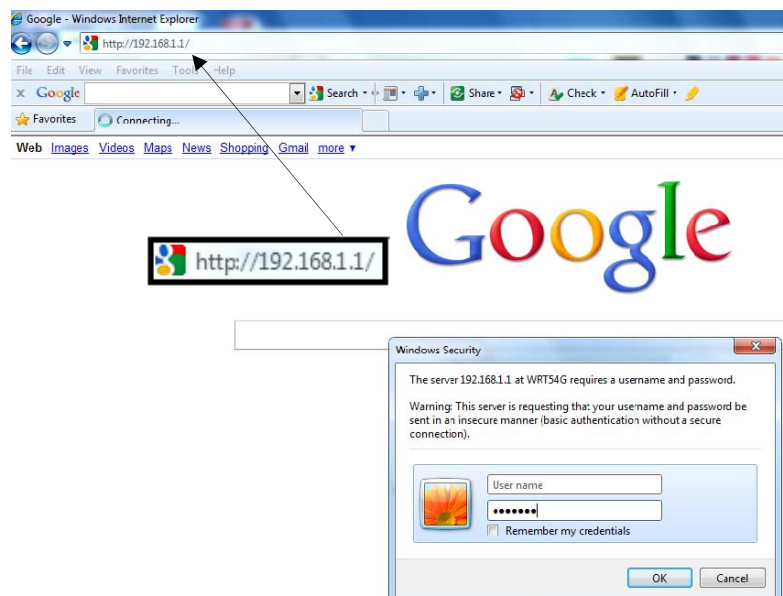
4.2.3.1 Log into your router

Use a web browser like Internet Explorer to access the router setup interface.

Address: Enter the IP address of your router then press enter, I.E.: 192.168.1.1

User Name: Enter the user name you selected when you initially set up your router.

Password: Enter the password you selected when you initially set up your router.



If your ISP set up your router they frequently use the username and password "admin".

4.2.3.2 Administration tab

Click: Administration tab

Remote Management: Click disable

The screenshot shows the Linksys WRT54G Administration tab. The left sidebar has 'Administration' selected. The main content area has tabs for 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. Under 'Administration', there are sub-tabs: 'Management', 'Log', 'Diagnostics', 'Factory Defaults', 'Firmware Upgrade', and 'Config Management'. The 'Router Password' section has fields for 'Password' and 'Re-enter to confirm'. The 'Web Access' section has 'Access Server' (HTTP checked, HTTPS unchecked), 'Wireless Access Web' (Enable checked, Disable unchecked), and 'Remote Router Access' (Enable unchecked, Disable checked). The 'UPnP' section has 'UPnP' (Enable checked, Disable unchecked). A 'Save Settings' button is at the bottom right.

4.2.3.3 Applications & Gaming tab

Application: Enter a name to identify the application, I.E.: Tal DVR

Start: Enter the starting port for a range of ports to forward. 7777 for DVR video streaming, 80 for http: access from the internet, and 8888 for the mobile port.

END: Enter the ending port for a range of ports to forward. It is OK to have the same port number in both start and end.

Protocol: select "Both"

IP Address: Enter the IP address you assigned your DVR in network setup.

Enable: Click to enable the port.

Close your web browser.

The screenshot shows the Linksys WRT54G Applications & Gaming tab. The left sidebar has 'Applications & Gaming' selected. The main content area has tabs for 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. Under 'Applications & Gaming', there are sub-tabs: 'Port Range Forward', 'Port Triggering', 'DMZ', and 'QoS'. The 'Port Range Forward' section has a table with columns: Application, Start, End, Protocol, IP Address, and Enable. The table contains three rows: 'Tal DVR' with Start 80, End 80, Protocol Both, IP Address 192.168.1.222, and Enable checked; 'Tal DVR' with Start 8888, End 8888, Protocol Both, IP Address 192.168.1.222, and Enable checked; and 'Tal DVR' with Start 7777, End 7777, Protocol Both, IP Address 192.168.1.222, and Enable checked. There are also empty rows for additional entries. A 'Save Settings' button is at the bottom right.

4.2.3.4 Setup tab

It has been our experience that some systems might require the DDNS setup in the router, if this is the case with your system, use these instructions.

Click: Setup tab

Click: DDNS tab

Select: dynDNS.org

Username: Enter your DDNS user name

Password: Enter your DDNS password

Host Name: Enter your DDNS host name, I.E.: talosdvr.dyndns.tv

Click: Update

The screenshot shows the Cisco Linksys E2000 web interface. The 'Setup' tab is selected, and the 'DDNS' sub-tab is active. The 'DynDNS.org' service is chosen. The form includes fields for Username, Password, Host Name, and System (set to Dynamic). There are also checkboxes for Mail Exchange (Optional), Backup MX, and Wildcard, all of which are currently disabled. The Internet IP Address is displayed as 174.102.0.220. A status message at the bottom indicates 'DDNS is updated successfully'. An 'Update' button is located at the bottom left of the form.

4.2.4 NVClient

Load NVClient software onto a remote PC connected to the internet. Follow the instruction beginning at 4.1.1 titled "Install NVClient software"

4.2.4.1 Launch NVClient from the shortcut on the PC desktop

4.2.5 Local setup

Click "Local Setup" to enter into the server settings interface.

Server Manage: Under the server manage tab click on "Add" to enter the Add Server menu.

Server Type: Click to choose the DVR server type; select 37DVR.

Address: Enter the (DDNS) host name of the DVR from the network setup menu.

Local Name: Assign a name to easily recognize a DVR if you have more than one; I.E.: HomeDVR.

CMD Port: Enter the port number used on your router to stream video from the DVR; 7777.

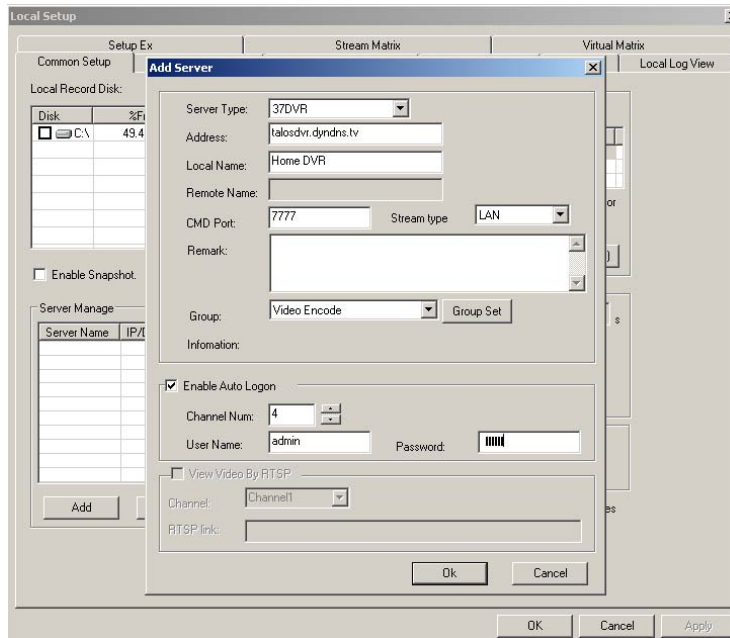
Stream Type: Select Main Stream.

Enable Auto Logon: Click to allow NVClient to log into the DVR.

Channel Num: Select the maximum number of channels in the DVR.

User Name: Enter the user name used to log into the DVR.

Password: Enter the password used to log into the DVR.



NOTE: The user name and password used to log into the DVR may or may not be the same user name and password used to log into NVClient.

Setup Ex: Allows you to set automatic logo server functions.

Enable Sync Time On Server Open: Check

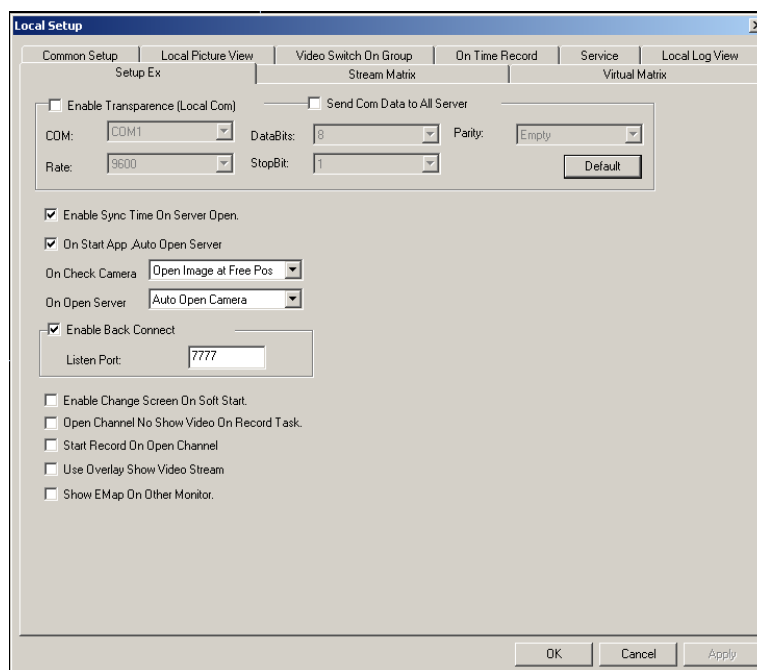
On Start App, Auto Open Server: Check

On Check Camera: Select "Open Image at Free Position"

On Open Server: "Select Auto Open Camera"

Enable Back Connect: Check

Listen Port: Enter the port number used on your router to stream video from the DVR; 7777.



4.2.5.1 Click on "OK" then exit NVClient and launch the client again to view cameras.

4.3 USE INTERNET EXPLORER TO OPERATE THE DVR FROM ANY PC CONNECTED TO THE INTERNET

The DVR has a web server built-in that allows you to operate the DVR using Internet Explorer, without the need for client software. This is very handy if you are using an office or a friend's computer and do not want to load software.

You can use IE at home or remotely. Use the DVR's IP address at home; I.E.: 192.168.1.222 or use your DDNS host name if you are away from your home.

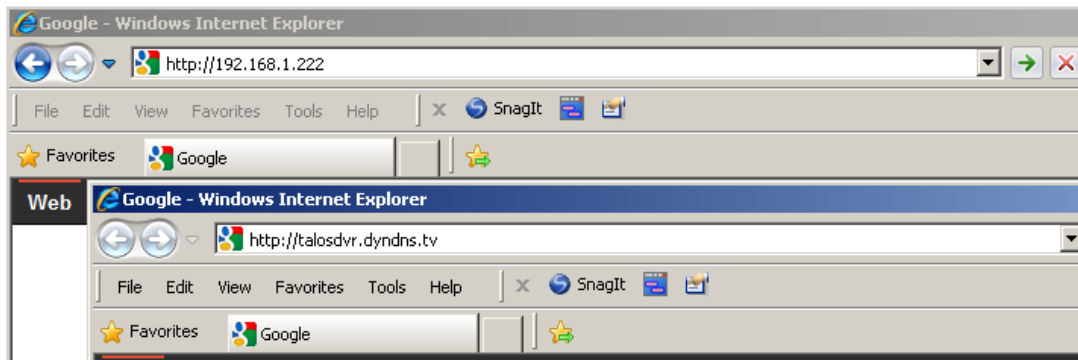
NOTE: It is common for "public" PCs and office PCs to have high security settings and you might not be able to access your DVR from these machines. Talk to your network administrator to see if you have administrator authority to make setting changes to the PC.

4.3.1 Launch Internet Explorer

Address Bar: Enter the DVR IP address or Host Name into the address bar. I.E.: <http://192.168.1.222> or <http://talosdvr.dyndns.tv>

IP Address: The IP address must match the IP address from the DVR Network setup menu. Use the IP address to operate the DVR from a PC on the same local area network as the DVR.

DDNS: The Host Name must match the DDNS host name from the DVR Network setup menu. Use the DDNS host name to operate the DVR from a PC that is not connected to the same local area network as the DVR.



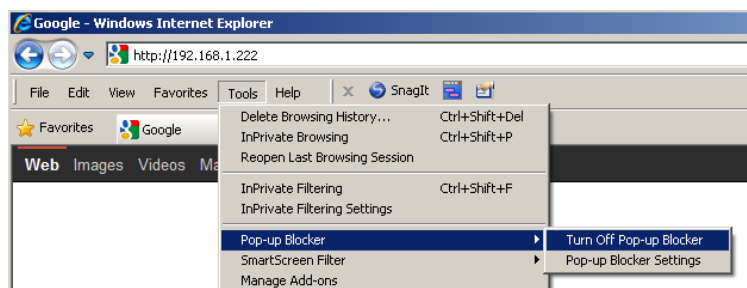
The first time you log into the DVR using Internet Explorer click on the pop-up "Download ActiveX" to load the camera viewer plug-in. If you cannot download the ActiveX control, follow the steps outlined in section 4.3.2 below.

4.3.2 Internet Explorer Settings

4.3.2.1 Pop-up Blocker

Tools: On the IE toolbar, click on the "Tools" tab.

Pop-up Blocker: Click "Turn Off Pop-up Blocker".



4.3.2.2 Security

Tools: On the IE toolbar, click on the "Tools" tab.

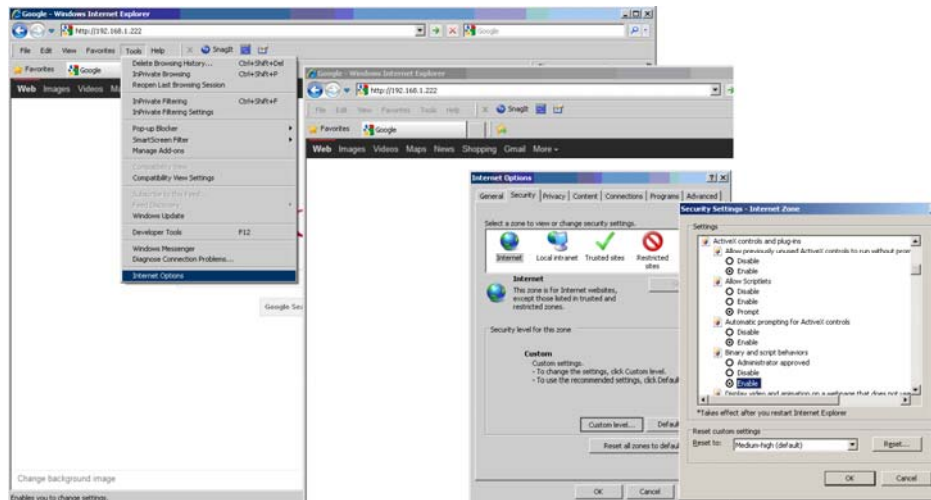
Internet Options: In the drop down menu click on "Internet Options".

Security: In the Internet Options menu click on "Security".

Custom Level: In the Security Settings menu click on "ActiveX controls and plug-ins".

Enable: Click "Enable or Prompt" for each option under ActiveX controls and plug-ins.

Exit IE: Click "OK", then "Apply", then "OK". Close Internet Explorer to save the new set-up.



4.3.2.3 Reset Default Security

After you successfully log into the DVR for the first time you will want to restore Internet Explorer's default security settings.

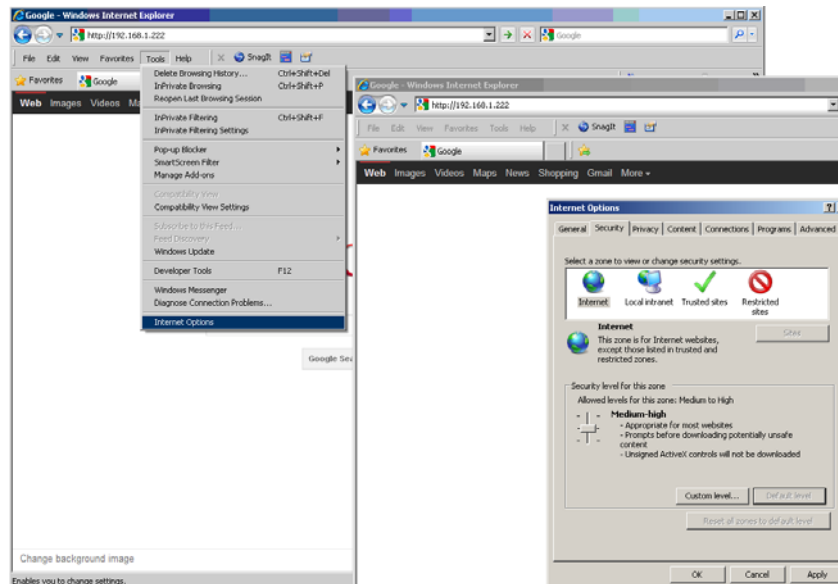
Tools: On the IE toolbar, click on the "Tools" tab.

Internet Options: In the drop down menu click on "Internet Options".

Security: In the Internet Options menu click on "Security".

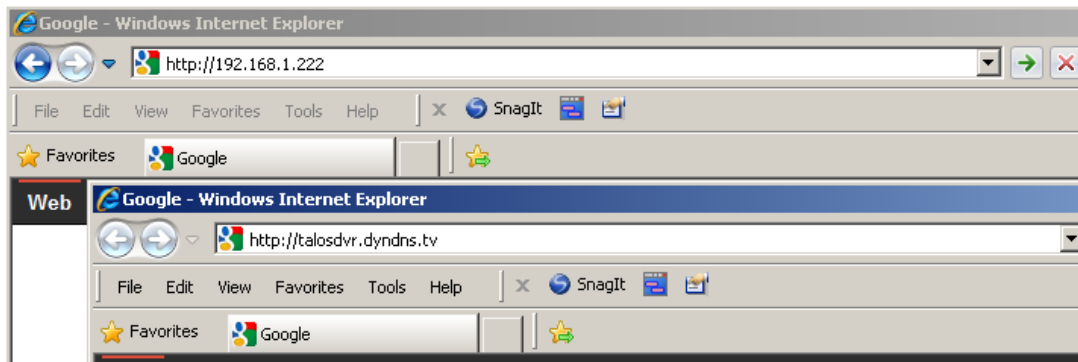
Reset: Click "Reset all zones to default level", then "Apply", then "OK"

Exit IE: Click "OK", then "Apply", then "OK". Close Internet Explorer to save the new set-up.



4.3.3 Log into the DVR

Enter your domain name (over internet, WAN) or the DVR IP address (over your network, LAN).



Username: Enter the user name you have set in your DVR, I.E. admin.

Password: Enter the password you use to log into your DVR.

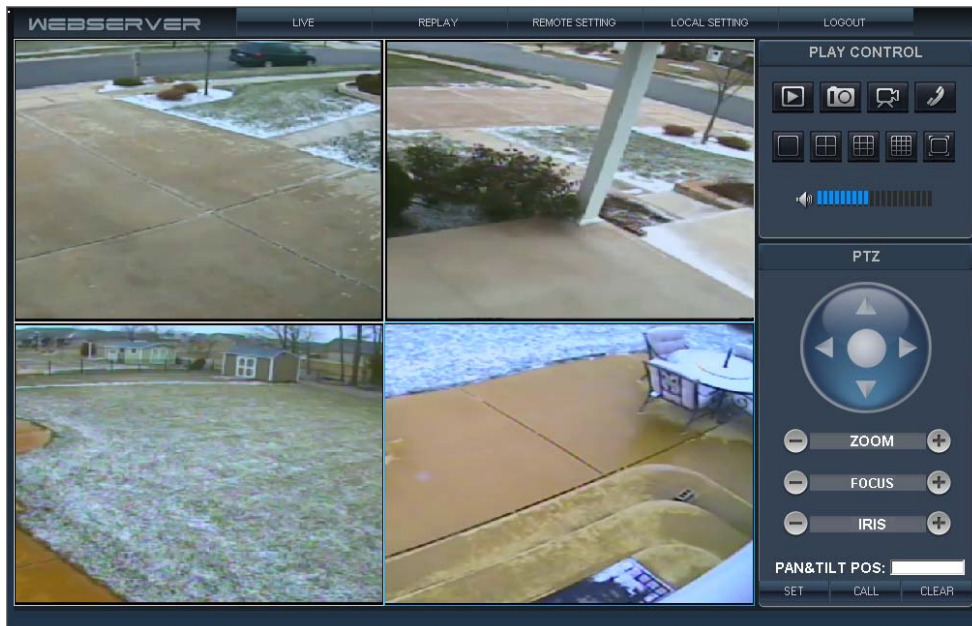
USER LOGIN

USER ID:

PASSWORD:

NETWORK:

The DVR will load the "Live" view from the cameras using the built-in web server.



4.3.4 WEB SERVER INTERFACE

There are four setting options in "Live view"; LIVE, REPLAY, REMOTE SETTING< LOCAL SETTING, and LOGOUT.

4.3.4.1 LIVE

Click "LIVE" to view a live feed from the cameras through the DVR web server. In "LIVE" view you have control of a PTZ camera, recording to the local PC, and camera layout view.



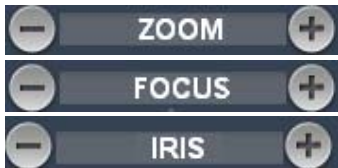
PTZ CONTROL

PTZ Control allows you to control a camera equipped with PTZ functions.

Direction Control allows you to tilt the camera up/down or pan the camera left/right. Click the arrow once to make a minor adjustment to the camera position or hold the arrow down to move more quickly. Click the "circle" in the center to stop.



ZOOM



Click to zoom out or in.

Click to focus far or near.

Click to close or open the iris aperture.

PTZ PRESET

To save a camera view type a location number into the box to the right of "POS:" and then click "SET". To move the camera to a preset position, enter the location number into the box to the right of "POS:" and click "CALL". To remove a camera preset position from memory, enter the location number into the box to the right of "POS:" and click "CLEAR"



PLAY

Move cursor over the icon, the icon will highlight so you can click a command.



Click to open all windows.



Click to capture a picture from the live view and save to the local PC.



Click to record the live view to the local PC.



Click to talk back to a camera location.



Click an icon to change multi-camera view.



Click to adjust the volume level.

4.3.4.2 REPALY (IE Browser)

You can play saved video from the DVR using the web server.

Click the "REPLAY" tab to enter the playback interface.

Select the date of the saved video on the calendar, if the list is not generated, click on "REFRESH".

From the "FILE LIST" you can narrow down your selection by channel and/or recording type.

Click on the selected file then press "PLAY" to play the file from the DVR or "DOWNLOAD" to copy the file to the local PC.



Note: While the video file is playing, the system won't allow you to download video files.

After viewing the selected file click DOWNLOAD to save the file to the local PC. When download is complete a dialog box will be displayed showing the path for the file on the local PC.

Playback control



The above purple progress bar shows download progress, green progress bar shows playback progress

- | | | | |
|--|-----------------------------------|--|------------------------------------|
| | Click to play a chosen video | | Click to pause playback of a video |
| | Click to stop playback of a video | | Click to fast-play a video |
| | Click to slow-play a video | | Click to pause at the next frame |

Use to adjust the volume accompanying a video file.

4.3.4.3 REMOTE SETTING

Click "REMOTE SETTING" to enter the Remote Setting interface. Within the remote setting interface you can set parameters for Video Encoding, Record setting, Alarm setting, PTZ setting, Network setting, Advanced setting, and System information seven menus.

ENCODE SETTING

Video Parameters setting allows you to change the way the DVR encodes video to maximize storage space and video streaming.

ENCODE SETTING

- VIDEO PARA
- AV CHANNEL BIND
- COLOR ADJUST
- RECORD SETTING
- ALARM SETTING
 - DEVICE ALARM
 - CHANNEL ALARM
- PTZ SETTING
- NETWORK SETTING
 - NETWORK
 - MOBILE
 - EMAIL
- ADVANCED SETTING
 - SYSTEM SETTING
 - DATE TIME SYNC
 - MAINTENANCE
- SYSTEM INFO
 - VERSION INFO
 - HDD INFO
 - USER SETTING

REC PARA

CHANNEL: CHANNEL1

FRAME RATE: 25 [1,25] QUALITY: FINE

RESOLUTION: CIF

COPY SETTINGS TO... SETUP REFRESH

AV Channel Bind setting allows you to change which video channels are tied to which audio channels. For example, an inside paging system can be bound to all interior cameras or an outdoor call box can be bound to all video channels leading to an entrance.

AV CHANNEL BIND

AUDIO: CHANNEL1 VIDEO: CHANNEL1 BIND TO: CHANNEL1 DEFAULT BINDING

CHANNEL: CHANNEL1

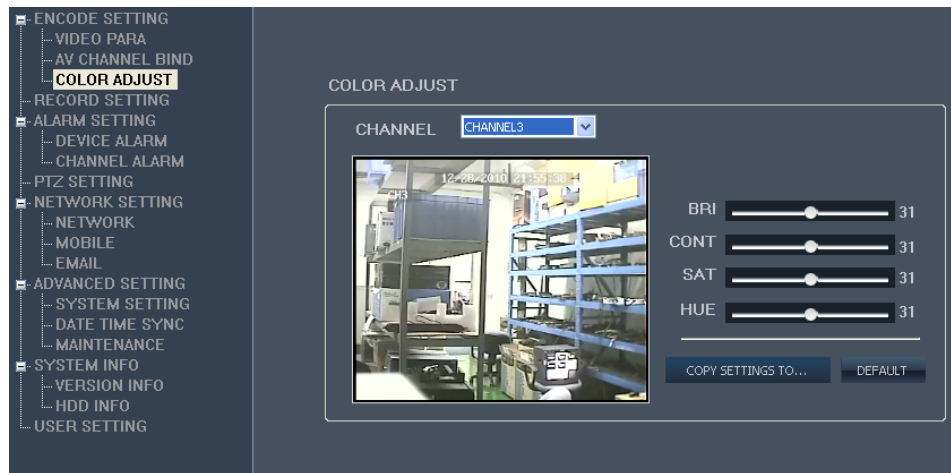
CH NAME: CH1

PREVIEW: ON OSD POSITION: UP LEFT

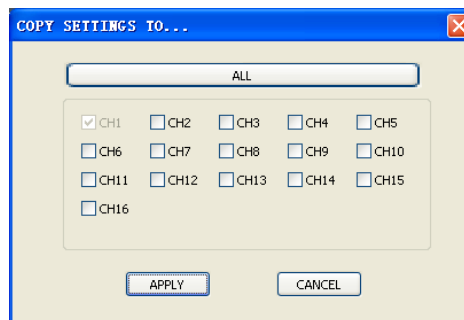
SHOW TIME SET: ON

SETUP REFRESH

Color Adjust setting allows you to change the video and color levels making camera images look more natural and easier to see.

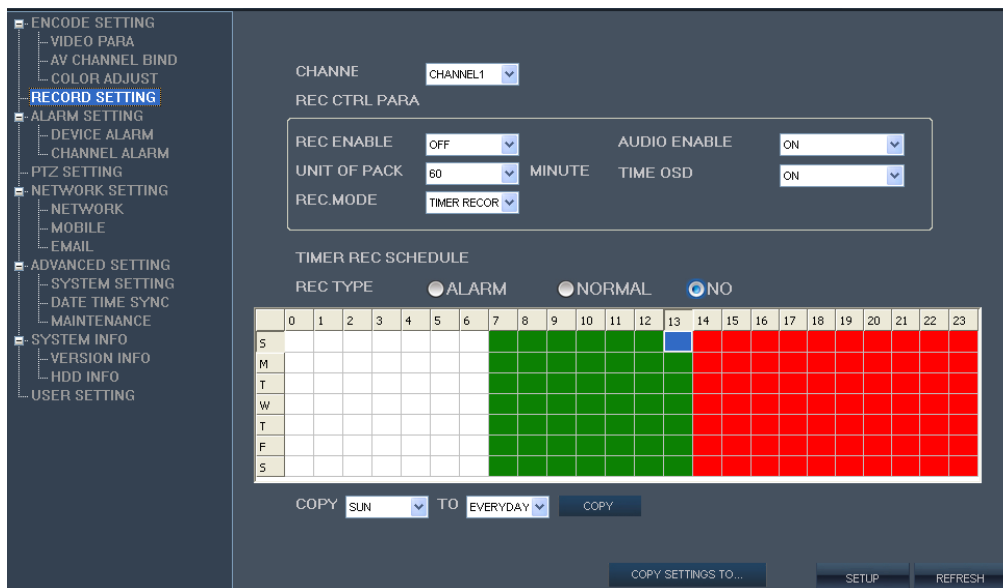


Note: you can copy settings to any or all channels using the "COPY SETTINGS TO..." button.



RECORD SETTING

Click "Record Setting" to enter the record setting interface.



Rec Enable allows you to decide if a video channel is recorded.

Unit of Pack allows you to set the max size of the video file making it easier to download and save.

Rec Mode allows you to set the DVR to record at; Power Up, Manual, or by Timer.

Audio Enable allows you to turn audio recording on or off. Audio recording requires microphones.

Time OSD allows you to turn the time display ON or OFF per channel while recording.

Timer Rec Schedule allows you to set the schedule for recording when record mode is set to "Timer Record". For example an office might record the interior from 6 AM to 7 PM and turn to alarm record for off hours.

ALARM SETTING

Click "Alarm Setting" to enter the Alarm Setting interface.

Device Alarm allows you to set the DVR to monitor the hard drive for low available space or hard drive failure. Click Enable On or OFF.



The screenshot shows a dark-themed interface with two rows of settings. The first row is labeled "EVENT TYPE" and has a dropdown menu set to "DISK INEFFECTIVE ALARM". The second row is labeled "ENABLE" and has a dropdown menu set to "ON".

Channel Alarm allows you to set the DVR to respond to various alarm events.

Channel allows you to set the desired channel for alarm trigger.

Event Type allows you to define the type of alarm trigger the DVR will respond to.

Enable allows you to toggle the alarm ON or OFF.

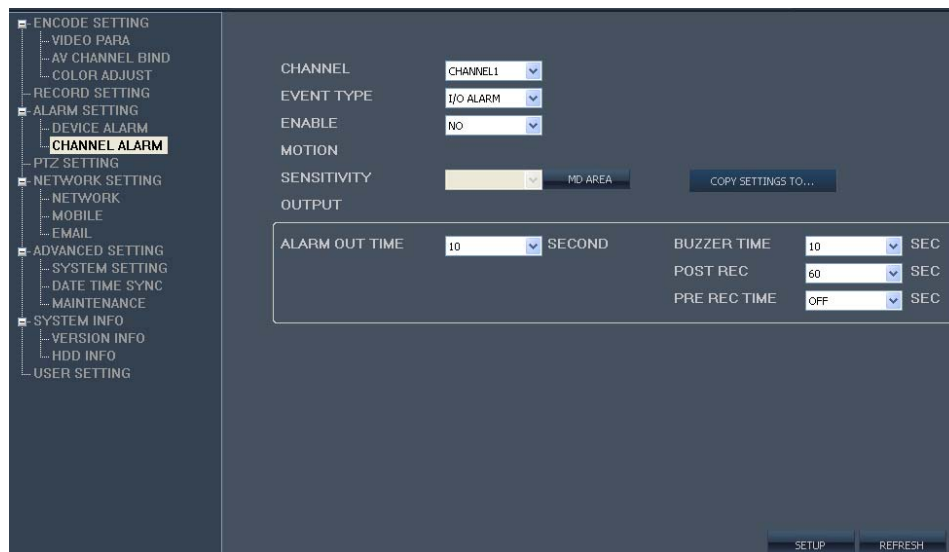
Sensitivity allows you to control the threshold for alarm activation by motion.

Alarm Out Time allow you to define the duration for the alarm activation.

Buzzer Time allows you to control the duration of the internal alarm buzzer

Post Rec allows you to define the amount of time after an alarm event the DVR will record.

Pre Rec Time allows you to define the amount of time prior to an alarm event the DVR will record.



The screenshot shows a dark-themed interface with a sidebar on the left and a main settings area on the right. The sidebar contains a tree view of settings categories: ENCODE SETTING, RECORD SETTING, ALARM SETTING (with sub-items VIDEO PARA, AV CHANNEL BIND, COLOR ADJUST, and CHANNEL ALARM highlighted), PTZ SETTING, NETWORK SETTING, ADVANCED SETTING, SYSTEM SETTING, MAINTENANCE, SYSTEM INFO, and USER SETTING. The main settings area has the following fields: CHANNEL (dropdown set to CHANNEL1), EVENT TYPE (dropdown set to I/O ALARM), ENABLE (dropdown set to NO), MOTION (dropdown set to NO AREA), SENSITIVITY (dropdown set to NO AREA), and a button labeled COPY SETTINGS TO... Below these is a section labeled OUTPUT with three rows: ALARM OUT TIME (dropdown set to 10, followed by SECOND), BUZZER TIME (dropdown set to 10, followed by SEC), and POST REC (dropdown set to 60, followed by SEC). At the bottom right are buttons labeled SETUP and REFRESH.

PTZ SETTING

Click "PTZ Setting" to enter the Pan Tilt Zoom camera setting interface.

Channe allows you to assign the settings to a specific camera and DVR channel.

Protocol allows you to select the control language the DVR will use to communicate with the camera.

Address allows you to match the DVR channel and camera; DVR and camera address must match.

Buad Rate allows you to set the rate at which information is transmitted from the DVR to the camera.

Data Bit allows you to set the size of each "character" transmitted from the DVR to the camera.

Stop Bit allows you to set the bit that marks the end of a character transmitted from the DVR.

Verify allows equipped cameras to communicate receipt of a direction to the DVR.

CHANNE CHANNEL1

PTZ CONTROL

PROTOCOL PELCO-D

ADDRESS 1

BAUD RATE 9600

DATA BIT 8

STOP BIT 1

VERIFY NONE

COPY SETTINGS TO... SETUP REFRESH

NETWORK SETTING

Click "Network Setting" to enter the network settings interface.

Basic Attributes

Type allows you to select the network connection you will use with your DVR; DHCP or Static.

IP Address allows you to set a specific address on your network.

Preferred DNS allows you to use the DVR with an external IP address and Domain Name Service.

Media Port is the port on your router the DVR uses to transmit a video stream.

Gateway is the address of your router on your network.

MAC is the specific identity of the DVR allowing devices to find it on a network.

Netmask is the address of the DVR on a sub-group of your network.

Web Port is the port on your router the DVR uses to receive requests from the internet.

PPPoE

PPPOE Enable allows you to turn PPPoE ON or OFF.

User Name is the name used to access the DVR by PPPoE.

Password is the password used to access the DVR by PPPoE.

DDNS

DDNS Enable turns DDNS ON or OFF.

Service allows you to select the DDNS service you are using.

Host Name is the host name you created when you opened your DDNS account.

User Name is the user name you created when you opened your DDNS account.

Password is the password you created when you opened your DDNS account.

BASIC ATTR

TYPE	STATIC	MAC	00-18-a8-43-29-4f
IP ADDRESS	192.168.1.118	NETMASK	255.255.255.0
PREFERRED DNS	192.168.1.1		
MEDIA PORT	8200	WEB PORT	80
GATEWAY	192.168.1.1		

PPPOE

PPPOE ENABLE	OFF		
USER NAME		PASSWORD	

DDNS

DDNS ENABLE	OFF	INTERVAL	45 min
SERVICE	3322	HOST NAME	
USER NAME		PASSWORD	

SETUP

REFRESH

MOBILE SETTING

Click "Mobile" to enter the mobile settings interface.

Port is the port on your router used for streaming to a Smartphone

Network Type allows you to choose the type of network used by your Smartphone or tablet.

MOBILE

PORT	15961
NETWORK TYPE	<div>WIFI</div> <div>2.5G</div> <div>2.75G</div> <div>3G</div> <div>WIFI</div>

SETUP

REFRESH

ADVANCED SETTING

Click "Advanced Setting" to enter the advanced settings interface.

System Setting

Language allows you to change the language for the DVR graphical user interface.

TV Mode allows you to set the video system for the country you will operate the DVR in.

Time Zone allows you to set the time zone the DVR will operate in with reference to GMT.

Daylight Savings Time

DST allows you to tune daylight savings time ON or OFF.

DST Mode allows you to choose between default and custom DST.

Start allows you to set the start of custom DST.

End allows you to set the end of custom DST.

SYSTEM SETTING

LANGUAGE: ENGLISH

TV MODE: PAL

TIME ZONE: GMT+08

DAYLIGHT SAVING TIME

DST: ON

DST MODE: CUSTOM

START: DEFAULT AM 2:00

1ST WEEK: 1ST WEEK

SUNDAY: JANUARY

00:00

END: DEFAULT AM 2:00

1ST WEEK: 1ST WEEK

SUNDAY: JANUARY

00:00

SETUP REFRESH

Date Time Sync

Date allows you to select the date; select from the calendar pop-up.

Time allows you to set the time.

Setup allows you to save settings.

WEBSERVER

LIVE REPLAY REMOTE SETTING LOCAL SETTING LOGOUT

ENCODE SETTING

VIDEO PARA

AV CHANNEL BIND

COLOR ADJUST

RECORD SETTING

ALARM SETTING

DEVICE ALARM

CHANNEL ALARM

PTZ SETTING

NETWORK SETTING

NETWORK

MOBILE

EMAIL

UPnP

ADVANCED SETTING

SYSTEM SETTING

DATE TIME SYNC

MAINTENANCE

SYSTEM INFO

VERSION INFO

HDD INFO

USER SETTING

DATE TIME SYNC

DATE: Tuesday, October 25, 2011

TIME: 12:11:28 PM

October, 2011

Sun Mon Tue Wed Thu Fri Sat

25 26 27 28 29 30 1

2 3 4 5 6 7 8

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30 31 1 2 3 4 5

Today: 10/25/2011

SETUP

Maintenance

System Operate

Operation allows you to set the DVR to original factory parameters or to reboot, click execute.

Upgrade

File allows you to locate an upgrade file saved on your PC and load it to the DVR, click upgrade.

Auto Maintenance

Enable allows you to toggle ON or OFF.

Mode allows you to set the frequency of auto maintenance; reboots the DVR.

Time allows you to set the time of day for auto maintenance.

Setup allows you to save the settings.

Refresh sets enable to OFF and clears all fields.

The screenshot shows the 'SYS OPERATE' web interface. It has three main sections: 'OPERATION' with a dropdown menu (currently showing 'RESTORE FACTORY PARA') and an 'EXECUTE' button; 'UPGRADE' with a 'FILE' input field, a file selection icon (three dots), and an 'UPGRADE' button; and 'AUTO MAINTENANCE' with 'ENABLE' (ON), 'MODE' (EVERY DAY), and 'TIME' (00:00) dropdowns, and 'SETUP' and 'REFRESH' buttons at the bottom.

SYSTEM INFO

Click to enter the "System Information" interface.

Version Info

Device SN is the serial number of the DVR

Device Type is the manufacturer style of DVR.

App Version is the version number of the web server application.

The screenshot shows the 'SYSTEM INFO' web interface. On the left is a sidebar menu with categories like ENCODE SETTING, ALARM SETTING, NETWORK SETTING, ADVANCED SETTING, and SYSTEM INFO. The 'VERSION INFO' section is active, showing a table with the following data:

VERSION INFO	
DEVICE SN	2198
DEVICE TYPE	DM58208
APP VERSION	T101228

Hard Disk Info List

Displays the hard drives installed into the DVR and their status, total size, and remaining storage.

NUMBER	DISK STATE	TOTAL SIZE	DISK FREE SIZE
1	NORMAL	1000204M	11542M
2	NO DISK		
3	NO DISK		
4	NO DISK		
5	NO DISK		
6	NO DISK		
7	NO DISK		
8	NO DISK		

USER SETTING

Click "User Setting" to enter the user setting interface.

Access Account

Account allows you to set the account number for a user; 1 ~ 5.

Enable allows you to turn an account ON or OFF; accounts 2 ~ 5.

User Name allows you to assign a user name to an account.

Password allows you to assign a password to accompany a user name.

Control allows you to assign permission for PTZ control, Parameter Set, and Upgrade/Format system.

Note: Only "admin" users can add users, modify user names and passwords. The default admin password is 123456.

ACCESS ACCOUNT

ACCOUNT: 2 ENABLE: ON

USER NAME: guest PASSWORD: *****

RETYPE PASSWORD: *****

CONTROL

☒ PTZ CONTROL ☐ PARA SET ☐ UPGRADE,FORMAT

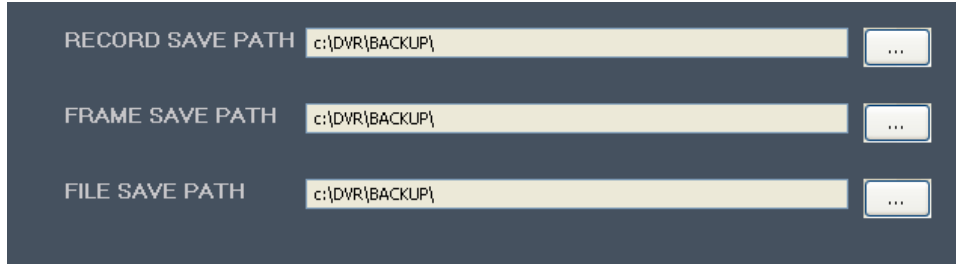
LOCAL SETTING

Click "Local Setting" to enter the local setting interface.

Record Save Path allows you to set a path to a folder for saving video recorded from the DVR server to the local PC.

Frame Save Path allows you to set a path to a folder for saving an image captured from the DVR server to the local PC.

File Save Path allows you to set a path to a folder for saving video downloaded from the DVR server to the local PC.



The screenshot displays a dark-themed interface with three rows of settings. Each row consists of a label on the left, a light-colored text input field in the middle, and a small square button with three dots on the right. The labels are 'RECORD SAVE PATH', 'FRAME SAVE PATH', and 'FILE SAVE PATH'. All three input fields contain the text 'c:\DVR\BACKUP\'. The buttons are located to the right of each input field.

LOGOUT

Click "Logout" to return to the login screen.